EXHIBIT 5



Equity Research

February 8, 2001

Pharmacia Corporation

CLASS Flunks Out

Pharmaceuticals

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Investment Conclusion

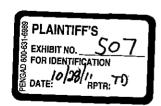
- FDA Panel Rejects Label Change. An FDA Advisory
 Committee rejected the notion that Celebrex, a COX-2
 inhibitor, has a better safety profile NSAIDs. PHA shares
 sold off (3+%) based on concerns that Celebrex's growth
 will stagnate without a label change. In addition, it appears
 unlikely that Merck's Vioxx will win a label change as well.
- Implications of the Panel's Decision. As we did not expect
 a wholesale label change both for Celebrex and Vioxx, we
 are not changing our 2001 sales estimates for Celebrex (\$3.6
 billion) or Vioxx (\$3.1 billion). While a label change could
 have boosted growth near term, physicians have already
 embraced the safety potential.
- Market Share Growth Is Stable. Concern over slowing market share is likely to manifest in share price weakness. However, given the tremendous initial ramp-up of COX-2s, we're not surprised. We note that share is increasing at one percentage point per month, a similar trend observed for drugs like Lipitor and Neurontin (Pfizer).
- Room to Grow. Celebrex and Vioxx have yet to be fully launched in Europe and Japan, suggesting growth to come, particularly given the lack of innovation in this area. Market growth, though, is likely to be driven by more drugs (2002E). While COX-2s have slim advantages over NSAIDs, promotion and demographics should boost use.
- Potential Share Weakness. Shares of MRK and PHA could be pressured (MRK in particular, as the panel meets 2/8, grappling with cardiovascular inconsistencies in VIGOR's database), COX-2s will continue to generate growth. Share price weakness affords an opportunity as we believe Celebrex and Vioxx's growth trends are not likely to change materially. MRK and PHA are rated Buy.

Rating: BUY PHA-NYSE (2/7/2001): \$56 1/8 \$64-35 1/16 52-week Range: Shares Outstanding: 1.3 Billion 1 Billion Shares Float: Market Capitalization: \$73 Billion Dividend/Yield: \$0.48/0.9% Fiscal Year Ends: December Book Value: \$4.16 per Share 2000E ROE: 0.0% \$5.3 Billion LT Debt: Preferred: Nil Common Equity: \$5.3 Billion

1999	\$1.11*
	\$1.45*
2001B	\$1.75
2002E	\$2.08
P/E Ratio	
1999	50.6X*
2000E	38.7X*
2001E	32.1X
2002E	27.0X

Company Description:

Pharmacia was created through the merger of Pharmacia & Upjohn and Monsanto in 1Q00. The company markets Celebrex, a leading antiarthritic and Xalatan, for glaucoma. In 4Q00, 13.7% of Monsanto was spun-off.



01-1813 @ 2001

Our quarterly EPS estimates are shown below.

		1 Qtr.	2 Qtr.	3 Qtr.	4 Qtr.	Year
1999	Actual	\$0.26	\$0.40	\$0.21	\$0.24	\$1.11
2000E	Current	\$0.33A	\$0.47A	\$0.33A	\$0.32E	\$1.45E
2001E	Current					\$1.75E
2002E	Current					\$2.08E

Stock prices (as of 2/07/01) of companies mentioned in this report:

Merck & Co. (MRK-NYSE \$81.85, Buy) (1) Pfizer, Inc. (PFE-NYSE \$44.50, Hold)

(1) The CIBC World Markets Corp. analyst(s) who covers this company also has a position in its securities.

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Exhibit 1

Ph	armacia (Corpora	tion: Pro	Forma	Income S	Statemer	nt By Ye	ar		
			(\$ in mill	ions, exce	pt EPS)					
	1						Year Ended	December		·
		%		%		%	-	%	_	%
Revenue:	2002E	Chg.	2001E	Chg.	2000E	Chg.	1999A	Chg.	1998A	Chg.
Pharmaceuticals and Consumer	\$15,900	12.7%	\$14,105	14.4%	\$12,330	15.4%	\$10,681	34.9%	\$7,919	3.5%
Agriculture	5,850	5.5	5,545	2.7	5,400	2.9	5,248	23.1	4,264	36.4
Other	500	3.1	485	5.4	460	(7.3)	496	21.6	408	NM
Total sales	\$22,250	10.5%	\$20,135	10.7%	\$18,190	10.7%	\$16,425	7.4%	\$15,293	NМ
Cost of sales	6,375	6.9	5,965	6.5	5,600	5.7	5,299	7.2	4,943	59.9
Gross profit	\$15,875	12.0%	\$14,170	12.5%	\$12,590	13.2%	\$11,126	7.5%	\$10,350	7.8%
Gross profit margin	71.3%		70.4%		69.2%		67.7%		67.7%	
SG&A	8,315	11.2	7,480	12.3	6,663	13.7	5,859	25.2	4,681	131.4
\$G&A/sales	37.4%	İ	37.1%		36.6%		35.7%		30.6%	
R&D	3,340	9.9	3,040	10.7	2,745	(1.5)	2,786	9.6	2,542	143.5
R&D/sales	15.0%		15.1%		15.1%		17.0%		16.6%	
EBITD	\$4,220	15.6%	\$3,650	14.7%	\$3,182	28.2%	\$2,481	(20.6%)	\$3,127	(52.2%)
EBITD margin	19.0%		18.1%		17.5%		15.1%		20.4%	
Amortization	100	(35.5)	155	(35.1)	239	(0.4)	240	(37.5)	384	122.0
Operating income	\$4,120	17.9%	\$3,495	18.8%	\$2,943	31.3%	\$2,241	(18.3%)	\$2,743	(56.9%)
Operating margin	18.5%		17.4%		16.2%		13.6%		17.9%	
Interest & other income, net	(125)	NM	(135)	NM	(247)	NM	(180)	NM	94	(170.7)
Pretax income	\$3,995	18.9%	\$3,360	24.6%	\$2,696	30.8%	\$2,061	(27.3%)	\$2,837	(54.5%)
Taxes	1,199	18.9	1,008	24.1	812	29.1	629	(30.7)	908	201.6
Tax rate	30.0%		30.0%		30.1%		30.5%		32.0%	
Net income, continuing ops	\$2,797	18.9%	\$2,352	24.8%	\$1,884	31.5%	\$1,432	(25.8%)	\$1,929	(67.5%)
Net margin	12.6%		11.7%		10.4%		8.7%		12.6%	
Consolidated EPS	\$2.14	18.7%	\$1.80	24.1%	\$1.45	30.1%	\$1.11	NM	\$1.52	(68.4%)
Minority Interest	0.06	20.0	0.05	NM	0.00	NM	0.00	NМ	0.00	NM
Earnings per share	\$2.08	18.7%	\$1.75	20.7%	\$1.45	30.1%	\$1.11	NM	\$1.52	NM
Discontinued operations	0.00	NM	0.00	NM	(0.02)	NM	0.06	NM	0.00	NM
Earnings per share	\$2.08	18.7%	\$1.75	22,4%	\$1.43	21.8%	\$1.17	NM	\$1.52	NM
Diluted shares outstanding	1,308.0	0.2	1,306.0	0.6	1,298.6	1,2	1,283.5	NM	1,270.0	NМ
Source: Pharmacia Corporation, CIBC Wor	ld Marketa estim	ics,								

Exhibit 2

	Phar	macia C	_			nues By	Year			
	П	,	(-	in million	s) Year Ended	December				
										,
Reyenues:	2002E	% Chg.	2001E	% Chg.	2000E	% Chg.	1999A	% Chg.	1998A	% Chg.
Focus Products		į						1		
Celebrex	\$4,275	22.1%	\$3,500	37.3%	\$2,550	73.4%	\$1,471	NM	\$0	NM
Camptosar	975	39.3	700	52.2	460	56.8	293	51.2	194	26.0
Detroi	730	20.7	605	33.0	455	38.3	329	163.2	125	NM
Zyvox	220	91.3	115	155.6	45	NM	0	NM	0	NM
Oncology	- []									
Pharmarubicin	160	0.0	160	(8.6)	175	(12.1)	199	12.4	177	(9.7)
Adriamycin	50	(9.1)	55	(8.3)	60	(7.0)	65	(3.7)	67	(16.3)
Ellence	60	50.0	40	166.7	15	NM	7	NM	0	NM
Aromasin	75	50.0	50	100.0	25	NM	0	NМ	0	NM
Inflammation				.	I .					
Cytotes	\$20	(20.0%)	\$25	(37.5%)	\$40	(50.0%)	\$80	(40.7%)	\$135	(27.0%)
Arthrotec	200	(20.0)	250	(18.0)	305	(10.3)	340	(1.7)	346	235.9
Daypro	40	(38.5)	65	(48.0)	125	(43.7)	222	(27.2)	305	(7.9)
Parecoxib	225	309.1	55	NМ	0	NM	0	NМ	0	NM
Valedecoxib	115	NМ	0	NM	0	NM	0	NM	0	NM
Metabolic disease							}			
Genotropin	\$575	6.5%	\$540	8.0%	\$500	8.5%	\$461	16.7%	\$395	13.2%
Fragmin	270	8.0	250	11,1	225	5.5	213	17.8	181	9.7
Micronase/Glynase	60	(7.7)	65	(7.1)	70	(5.1)	74	(19.8)	92	9.5
CNS		, ,							İ	
Vestra	\$15	NM	so	NМ	so	NM	\$0	NM	\$0	NM
Xanax	275	(9.8)	305	(4.7)	320	(0.1)	320	(0.2)	321	18.5
Mirapex	85	(5.6)	90	5.9	85	4.4	81	66.I	49	145.0
Infectious disease		`	-	i			1			
Cleocin	\$395	3.9%	\$380	4.1%	\$365	6.5%	\$343	9.2%	\$314	5.0%
Vantin	35	(12.5)	40	(11.1)	45	(5.1)	47	(8.8)	52	(18.8)
Lincocin	35	(12.5)	40	(20.0)	50	0.4	50	(2.4)	51	(7.3)
Genitourinary	H	, ~ [
Depo-Provera	\$255	(1.9%)	\$260	2.0%	\$255	1.2%	\$252	11.0%	\$227	15.8%
Provera	80	(5.9)	85	(5.6)	90	(5.1)	95	(5.2)	100	5.3
Cardiovascular	il i			· ' í				` '		
Calan	\$20	(20.0%)	\$25	(28.6%)	\$35	(30.0%)	\$50	(28.6%)	570	NM
Covera HS	190	2.7	185	5.7	175	8.7	161	98.8	81	47.3
Spironolactone	150	(14.3)	175	(12.5)	200	(10.7)	224	12.0	200	NM
Other		(-7,0)	','	()		,-,,,,			-**	*
Medrol	\$250	(7.4%)	\$270	(1.8%)	\$275	(7.5%)	\$297	12.6%	\$264	9.5%
Xelaten	1,075	15.0	935	29.9	720	41.9	507	52,8	332	101.2
Ambien	810	8.0	750	11.1	675	29.1	523	14.2	458	15.4
Total Pharmaceuticals	\$15,225	13.4%	\$13,430	15.1%	\$11,670	16.7%	\$9,996	30.8%	\$7,644	20.5%
Consumer Health Care	\$675	0.0%	\$675	2.3%	\$660	(3.6%)	\$685	0.3%	\$683	6.2%
Rogaine	130	(7.1)	140	3.7	135	(2.9)	139	4.5	133	3.1
Nicorette	225	2,3	220	2.3	215	(8.1)	234	9.9	213	26.8
Animal Health	11	3.1%	\$485	2.3 5.4%	\$460	9.3%	\$421	3.2%	\$408	1.2%
Agriculture	\$500					2.9%	\$5,248	23.1%	l	
Total Product Revenue	\$5,850	5.5%	\$5,545	2.7%	\$5,400	10.7%			\$4,264	36.4%
Source: Pharmacia Corporation,	\$22,250	10.5%	\$20,135	10.7%	\$18,190	10.7%	\$16,425	7.4%	\$15,293	NM

Exhibit 3

		Merck &	Co.: Inc		•	Year				
<u> </u>	11		(\$ in milli			Db				
		Year Ended December								
Revenue:	2002E	Chg.	2901E	Chg.	2000A	Chg.	1999A	Chg.	1998A	Chg.
Pharmaceuticals	\$25,075	10.7%	\$22,655	12.0%	\$20,225	15.7%	\$17,480	14.3%	\$15,297	12.15
Medeo	27,750	18.0	23,520	16.8	20,140	32,2	15,235	31.3	11,602	22.9
Total sales	\$52,825	14.4%	\$46,175	14.4%	\$40,365	23.4%	\$32,715	21.6%	\$26,898	13.8%
Cost of sales	31,125	17.4	26,520	18.2	22,444	28.€	17,534	25.9	13,925	18.1
Gross profit	\$21,700	10.4%	\$19,655	9.7%	\$17,922	18.1%	\$15,181	17.0%	\$12,973	9.5%
Gross profit margin	41.1%		42.6%		11.1%	ŀ	16.1%	i	48.2%	
SG&A	7,640	10.9	6,890	11.7	6,168	18.6	5,200	15.3	4,511	4.9
SG&A/sales	14.5%	1	14.9%		15.3%		15.9%		16.8%	
R&D	3,000	12.1	2,675	14.1	2,344	13.3	2,068	13.6	1,821	8.2
R&D/sales	5.7%		5.8%		5.8%		6.3%		6.8%	
Operating income	\$11,060	9.6%	510,090	7.2%	\$9,410	18.9%	\$7,912	19.2%	\$6,641	13.25
Operating margin	20.9%	l	21.9%	1	23.3%		24.2%		24.7%	
Interest & other income, net (a)	355	(30.4)	510	22.6	416	(41.2)	707	18.9	595	(0.6
Pretax income	\$11,415	7.7%	\$10,600	7.9%	59,826	14.0%	\$8,620	19.1%	\$7,235	12.0%
Taxes	3,425	5.9	3,233	7.7	3,002	10.0	2,729	37.2	1,989	7.6
Tax rate	30.0%		30.5%		30.6%		31.7%	ļ	27.5%	
Net income	\$7,991	8.5%	\$7,367	8.0%	\$6,824	15.8%	\$5,891	12.3%	\$5,246	13.79
Net margin	15.1%		16.0%		16.9%		18.0%		19.5%	
Earnings per share, diluted	\$3.58	11.0%	\$3.22	11.2%	\$2.98	18.5%	\$2.45	13.9%	\$2.15	15.0%
Diluted shares outstanding	2,233.0	(2.3)	2,284.7	(2.9)	2,353.2	(2.2)	2,407.0	(1.4)	2,441.2	(1.1

Sources: Merck & Co., CIBC World Markets estimates,

Exhibit 4

		Merck &	& Co.: P	roduct R	evenues E	y Year			· <u>-</u>	
			(\$	in million	s)					
		%		%		%		%		%
Revenues:	2002E	Change	2001E	Change	2000A	Change	1999A	Change	1998A	Change
Focus Products								l		
Zocor	\$5,605	5.0%	\$5,340	1.1%	\$5,280	17.5%	\$4,495	13.9%	\$3,945	10.5%
Cozaar	2,315	15.8	2,000	16.6	1,715	23.8	1,385	30.7	1,060	55.7
Fosamax	1,750	15.9	1,510	18.4	1,275	22.0	1,045	34.8	775	45.7
Singulair	1,795	38.1	1,300	51.2	860	72.6	500	157.7	194	NM
Vioxx	4,305	41.1	3,050	41.2	2,160	357.6	472	NM	0	NM
Cardiovascular	\$9,980	(0.4%)	\$10,025	(5.1%)	\$10,560	8.5%	\$9,730	9.2%	\$8,907	4.5%
Vasotec	735	(21.0)	930	(48.0)	1,790	(22.3)	2,305	(4.0)	2,400	(4.4)
Mevacor	150	(50.0)	300	(42.3)	520	(13.3)	600	(19.5)	745	(32.1)
Prinivil	900	(26.8)	1,230	14.4	1,075	31.9	815	18.1	690	17.9
Aggrastat	230	27.8	180	38.5	130	62.5	80	247.8	23	NM
Anti-infectives	\$1,085	(2.3%)	\$1,110	(5.1%)	\$1,170	(8.6%)	\$1,280	(11.8%)	\$1,452	7.0%
Crixivan	380	(10.6)	425	(19.8)	530	(20.3)	665	(1.5)	675	16.0
Primaxin	675	3.1	655	8.3	605	5.2	575	9.5	525	(0.9)
Metabolic	\$4,740	15.5%	\$4,105	12.3%	\$3,655	18.3%	\$3,090	19.7%	\$2,581	21.9%
Pepcid	400	(27.3)	550	(35.3)	850	(6.6)	910	(18.0)	1,110	(5.9)
Proscar	525	5.0	500	6.4	470	5.6	445	7.2	415	3.8
Propecia	265	10.4	240	23.1	195	5,4	185	122.9	83	NМ
Vaccines	\$870	(2,2%)	\$890	(5.8%)	\$945	9.9%	\$860	1.6%	\$847	15.4%
Hepatitis vaccines	280	(6.7)	300	(13.0)	345	15.0	300	(4.8)	315	2.6
Viral vaccines	525	1.0	520	0.0	520	6.1	490	4.3	470	17.5
Other Pharmaceuticals	\$8,400	28.7%	\$6,525	67.5%	\$3,895	54.6%	\$2,520	66.8%	\$1,511	65.5%
Timoptic XL	200	(13.0)	230	(9.8)	255	(13.6)	295	(7.8)	320	(9.9)
Trusopt/Cosopt	440	6.0	415	13.7	365	10.6	330	24.5	265	18.3
Maxalt	255	24.4	205	7.9	190	81.0	105	288.9	27	NM
Total Pharmaceuticals	\$25,075	10.7%	\$22,655	12.0%	\$20,225	15.7%	\$17,480	14.3%	\$15,297	12.1%
Medeo (b)	\$27,750	18.0%	\$23,520	16.8%	\$20,140	32.2%	\$15,235	31.3%	\$11,602	22.9%
Total Product Revenue	\$52,825	14.4%	\$46,175	14.4%	\$40,365	23.4%	\$32,715	21.6%	\$26,898	13.8%

⁽a) Does not reflect discounts and rebates. These are netted in "other, net".

⁽b) Medco sales of Merck products are reflected in individual product sales categories.

Sources: Merck & Co., CIBC World Markets estimates.

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			Stage of I	Stage of Development
Drug	Therapeutic Category: Indication	Description	CS.	Europe
Vestra	CNS: depression	Norepinephrine reuptake inhibitor	Approvable	Market
Aromasin	Oncology: post menopausal breast cancer	Type 1 aromatase inhibitor	Approved	Filed
Zyvox	Infectious disease: gram positive infections	Oxazolidinone	Approved	Phase III
Xalcom	Ophthalmology: glaucoma	Prostanoid FP-r agonist & beta blocker	Approvable	Filed
Axert	CNS: migraine headache	5HT1 receptor agonist	Filed	:
Celebrex (a)	Inflammation: pain (CLASS data)	COX-2 inhibitor	Filed	Filed
Parecoxib	Inflammation: pain relief	COX-2 inhibitor injectable	Filed	Phase III
Valdecoxib	Inflammation: arthritis, pain relief	COX-2 inhibitor	Phase III	Phase III
Eplerenone	Cardiovascular: hypertension, congestive heart failure	Selective aldosterone receptor antagonist	Phase III	Phase III
SnEt2	Ophthalmology: macular degeneration (wet)	Photodynamic therapy	Phase III	Phase III
Camptosar (a)	Oncology: small cell lung cancer	Topoisomerase I inhibitor	Phase III	Phase III
Xalatan (a)	Ophthalmology: first line glaucoma, combination	Prostanoid FP-r agonist	Phase III	Phase III
Tifacogin	Infectious disease: sepsis	TIFP antagonist	Phase III	Phase III
Trelstar	Female Health Care: endometriosis	LHRH agonist	Phase III	Phase III
Trelstar	Oncology: advanced prostate cancer	LHRH agonist	Phase III	Phase III
TPO	Oncology: advanced non-small cell lung cancer	Thrombopoietin	Phase II	Phase II
SU5416	Oncology: solid tumors	Angiogenesis inhibitor	Phase II	Phase II
Reglixane	Metabolic: type II diabetes	Insulin sensitizer	Phase II	Phase II
Camptosar (a)	Oncology: advanced non-small cell lung cancer	Topoisomerase I inhibitor	Phase II	:
Celebrex (a)	CNS: Alzheimer's disease	COX-2 inhibitor	Phase II	Phase II
Celebrex (a)	Oncology: colon cancer	COX-2 inhibitor	Phase II	Phase II
PNU 95666	CNS: Parkinson's disease	D, agonist	Phase II	Phase II
PNU 161387	CNS: schizophrenia	D4 antagonist	Phase II	Phase II
PN11 83757	Metabolic: erectile dysfunction	Colvina channel anener	Dhass 77	Dhora II

Exhibit 6

Drug Therapeutic Category: Indication Cancidas Infectious disease: candida, aspergillus intervanz Invanz Infectious disease: complicated infections Fosemax (a) Metabolic: male osteoporosis	Therapeutic Category: Indication Infectious disease: candida, aspergillus infections Infectious disease: complicated infections Metabolie: male osteoporosis Metabolie: once-weekly	Description Glucansynthase inhibitor Carbapenem antibiotic	SII	orage or neveropment
	dida, aspergillus infections plicated infections ocrosis	Glucansynthase inhibitor Carbapenem antibiotic	2	Europe
	pplicated infections vorosis	Carbapenem antibiotic	Approved	Phase III
	orosis y	•	Filed	Filed
	Y	Aminobisphosphonate	Approved	Filed
Fosamax (a) Metabolic: once-weekly	- 2.4 64-242-	Aminobisphosphonate	Approved	Filed
Vioxx (a) Inflammation: rheumatoid arthritis	ord arthrids	COX-2 inhibitor	Phase III	Phase III
Etoricoxib Inflammation: osteoarthritis, RA, pain	hritis, RA, pain	COX-2 inhibitor	Phase III	Phase III
Singulair/Claritin (b) Respiratory: asthma/allergies	lergies	Leukotriene antagonist/antihistamine	Phase III	Phase III
Zocor/ezetimibe (b) Cardiovascular: cholesterol lowering	terol lowering	Statin/cholesterol absorption inhibitor	Phase III	Phase III
Proscar (a) Oncology: prevention of prostate cancer	of prostate cancer	5-alpha reductase inhibitor	Phase III	Phase III
Vioxx (a) CNS: Alzheimer's disease	ase	COX-2 inhibitor	Phase III	Phase III
KRP-297 Metabolic: diabetes		Thiazolidinedione	Phase II	Phase II
J-104132 Cardiovascular: congestive heart failure	itive heart failure	Endothelin antagonist	Phase II	Phase II
Substance P CNS: depression		Second generation substance P antagonist	Phase II	Phase II
MK-869 CNS: chemotherapy-induced nausea	duced nausea	Substance P antagonist	Phase II	Phase II
HPV vaccine Infectious disease: human papilloma infection	nan papilloma infection	Vaccine	Phase II	Phase II
Rotavirus vaccine Infectious disease: rotaviral infections	viral infections	Vaccine	Phase II	Phase II

106

Pharmaceutical Industry - EPS Estimates and Valuation

										199-103				
	Ticker		Price	S2 Week	/eek			EPS		% EPS			P/E	
Сопрапу	Symbol	Ratiog	02/01/01	Blgh	Low	1999A	2000E	2001E	2002E	Growth	1999A	2000E	2001E	2002E
American Home Products Corp. (a)	AED	Д	61 2/5	65 1/4	40 1/2	1.75	1.90	2.18	2.50	13	35.1	32.3	28.2	24.6
AstraZeneca PLC(a)	AZN	Ħ	44 46/73	52 27/73	30 32/97	1,41	1.63	1.80	1.75	œ	31.7	27.4	24.8	25.5
Bristol-Myers Squibb Co. (b)	BMY	SB	64 49/50	74 67/77	42.377	2,06	2,36	2.63	2.95	13	31.5	27.5	24.7	22.0
GlaxoSmithKline PLC(c)	GSK	Ħ	53 3/4	64 40/93	45 1/4	NA	1.85	2.10	2.25	9	MN	29.1	25.6	23.9
Johnson & Johnson	N.	д	94 9/10	105 40/43	66 3/25	2.97	3.42	3.85	4.35	12	32.0	27.7	24.6	21.8
Eli Lilly & Co.	ΙΤλ	Ħ	78 19/20	109	52	2.28	2.65	2.83	3.00	21	34.6	29.8	27.9	26.3
Merck & Co. (d)	MRK	щ	81 17/20	96 17/25	52	2.45	2.90	3.22	3.58	12	33.4	28.2	25.4	22.9
Pfizer Inc. (e)	PFE	н	44 1/2	49 1/4	30	0.79	1.02	1.27	1.56	18	56.3	43,6	35.0	28.5
Pharmacia Inc.	PHA	Д	56 3/23	99	353/50	1,11	1.45	1.75	2.08	4	50.6	38.7	32.1	27.0
Schering-Plough Corp.	SGP	н	50 24/25	09	30 1/2	1,42	1.64	1.88	2.14	13	35.9	31.1	27.1	23.8
Share Weighted Average										13.4	NM	33.7	28.8	25.3
S & P Industrials (f)	SPII		1569.19	1947.79	1454,66	58.00	60.53	62.23	64.75		27.1	25.9	25.2	24.2
S & P 500 (f)	SPX		1340.89	1553.11	1254.26	50.82	57.06	59.39	65.38		26.4	23.5	22.6	20.5
						107	Moulton							
				:		1217	MINERAL					;	1	
	Ticker	Stock	Stock Price Performance (% Change)	nnnce (% Chr	inge)	Debt	Value	٦	EV to 1999A (c)	(c)		Relative P/E (SPX	Æ (SPX)	
Сопряпу	Symbol	1 Mo.	3 Mo.	12 Mo.	KT.	(SBill)	(S Bil)	Sales	EBITDA C	Gross Profit	1999	2000A	2001E	2002E
American Home Products Corp.	AHP	(3.4%)	(2:0%)	36.4%	(1.6%)	1.255	80.5	0.0	19.1	8.0	1,33	1.38	1.25	1.20
AstraZeneca PLC	AZN	(13.3)	(5.0)	20.6	(12.3)	(2.205)	78.9	5.1	17.0	6.9	1.20	1.17	1.10	1,24
Bristol-Myers Squibb Co.	BMY	(12.1)	2.5	0.5	(1.6)	(1.183)	129.1	63	19.6	8.7	1.20	1.17	1.09	1.07
GlaxoSmithKline PLC	GSK	NM	MM	NM	(3.8)	1.079	163.2	12,0	35.2	15.0	NN	1.24	1.13	1.16
Johnson & Johnson	N.	(9.7)	4,3	11.9	(7.0)	(0.064)	134.7	4.9	18.3	7.1	1.21	1.18	1.09	1.06
Eli Lilly & Co.	ITY	(15.2)	(13.2)	20.4	(13.7)	(0.963)	86.5	8.6	23.0	10.9	1.31	1.27	1.24	1.28
Merck & Co.	MRK	(12.6)	(8.8)	9.9	(12.0)	2.801	192.8	6.0	21.6	12.9	1.27	1.20	1.13	1,11
Pfizer Inc.	PFE	(33)	2.3	203	(3.5)	2.487	283.4	10.4	27.2	12,9	2.13	1.86	1.55	1.39
Pharmacia Inc.	PHA	(8.0)	(2.3)	46.0	(6.5)	6.399	73.0	8.7	35.3	13.5	1.92	1.65	1.42	1.32
Schering-Plough Corp.	SGP	(10.2)	(2.1)	12.8	(6.1)	(1.142)	75.1	8.1	31.2	10.0	1.36	1,32	1.20	1,16
Share Weighted Average		(7.2%)	(1,2%)	15.7%	(6.6%)			8.4	25.7	11.4	MM	1,44	1.28	1,23
S & P Industrials	SPII	2.7	(4.1)	(10.5)	5.9									
S & P 500	SPX	1.6	(1.7)	(4.5)	4.5									

(a) EPS figures are pro forma for the divestiture of agriculture (b) Pro forma EPS for the two divestitures are \$2.12 and \$2.35 (c) EPS translated @ \$1.57 (d) The CIBC World Markets analyst(s) that covers this

company also has a position in its securities. (a) 1999 includes one-time items. (f) First Call estimates. * Actual reported EPS.

Source: CBC World Markets Corp. estimates, Company reports, Factset, ILX, First Call

EXHIBIT 6

UNITED STATES DISTRICT COURT DISTRICT OF NEW JERSEY

ALASKA ELECTRICAL PENSION FUND, *et al.*, On Behalf of Themselves and All Others Similarly Situated,

Plaintiffs,

VS.

PHARMACIA CORPORATION, et al.,

Defendants.

Civil Action No. 3:09-1519 (AET) (Consolidated)

CLASS ACTION

REPORT ON MARKET EFFICIENCY, LOSS CAUSATION, AND DAMAGES STEVEN P. FEINSTEIN, PH.D., CFA
JUNE 6, 2011

TABLE OF CONTENTS

SCOPE OF PROJECT AND REPORT	1
CREDENTIALS	1
CONCLUSIONS	4
FACTUAL BACKGROUND	5
About the Company	5
Background Information	6
Timeline of Important Events	9
17 April 2000: Pharmacia Announces the CLASS Results	9
25 April 2000: Q1 2000 Earnings and Conference Call	12
22-23 May 2000: Presentation of CLASS Results at the Digestive Disease Week Conference and Press Release	13
13 September 2000: <i>JAMA</i> Publishes Article Authored by Pharmacia Employees and Consultants	16
6-7 February 2001: FDA Posting of Review Reports and Advisory Committee Meeting	, 18
5 August 2001: Washington Post Exposé States Defendants Misled JAMA Editors and t	
Post-Class Period: Confirmation of Deception	21
EFFICIENT MARKET DEFINED	22
The Cammer Factors	24
The Krogman Factors	26
EFFICIENCY OF THE MARKET FOR PHARMACIA COMMON STOCK	27
Trading Volume	27
Analyst Coverage and Other Avenues of Information Dissemination	28
Analyst Coverage	28
Institutional Ownership and Buy-Side Analysis	29
News Coverage and Other Information Dissemination Vehicles	30
Market Makers and Listing on the New York Stock Exchange	30
S-3 Registration Eligibility	32
Float	33
Reporting	33
Eligibility	34
Krogman Factors	34
Market Capitalization	34

Outstanding Float Ratio	35
Bid-Ask Spread	35
EMPIRICAL EVIDENCE OF PHARMACIA COMMON STOCK MARKET EFFICIENC	Y . 36
Special Importance of the Empirical Factor	36
Event Study Analysis	37
Event Selection Criterion	38
Disclosure Events	39
Length of Event Window	40
Controlling for Potentially Confounding Factors: Removing Factors that Impact the Chemicals and Agricultural Business of New Monsanto	45
Controlling for Potentially Confounding Factors: Removing the Market and Sector Ef	
t-test	
Event Study Results: 6-8 February 2001	
Event Study Results: 6-8 August 2001	
Event Study on Pharmacia Stock Returns without Removing New Monsanto	
Results of Alternative Event Study	
Market Efficiency Summary and Conclusion	
LOSS CAUSATION	
Company Statements Confirm the Materiality of the Alleged Misrepresentations and Omissions	
Importance of Celebrex to Pharmacia.	
The Importance of CLASS to Celebrex	
Analysts and the Financial Media Deemed the Alleged Misinformation Material	
Analysts Considered Celebrex Important to Pharmacia	
The Financial Press Reported on the Importance of Celebrex	
Analysts Considered CLASS Important to Celebrex	
The Financial Press Reported on the Importance of CLASS	
The Court Concluded that the CLASS Results and Related Statements Were Material	
EMPIRICAL CONFIRMATION OF LOSS CAUSATION	
Events of 6-8 February 2001	
The Corrective Disclosure	
The Corrective Disclosure Dissipated Artificial Inflation	70
Accounting for Potentially Confounding Information	
Xalatan Sales and Somavert Application Announcements	

APBiotech IPO	72
Alcon Laboratories Patent Lawsuit	72
FDA Warning Letter about Celebrex and Coumadin Combination	73
Conclusion About Confounding Information	74
DAMAGE COMPUTATION	74
The Inflation Ribbon	74
Per Share Damage Formula	75
AGGREGATE DAMAGES	77
Two-Trader Proportional Trading Model	78
Published Literature, Wide Use, and Acceptance by Courts	78
Construction of the Two-Trader Model	80
Analysis of the Two-Trader Model	82
Aggregate Damages Assuming the 90-Day Bounce-Back Period Begins on 8 F	•
Aggregate Damages Estimated from the Institutional Holdings Data	84
LIMITING FACTORS	86
APPENDIX: LOGARITHMIC RETURNS	87

SCOPE OF PROJECT AND REPORT

- 1. I was asked by Robbins Geller Rudman & Dowd LLP, counsel for the Plaintiffs, to determine whether or not the common stock of Pharmacia Corporation ("Pharmacia" or the "Company") traded in an efficient market during the Class Period, 17 April 2000 to 5 August 2001. I was also asked to determine whether investors suffered losses as a result of the Defendants' alleged misdeeds described in Plaintiffs' Consolidated Complaint for Violation of the Federal Securities Laws, filed 27 October 2003 ("Complaint"). I was also asked to quantify damages sustained, if any, on a per share basis and to provide an estimate of aggregate damages.
- 2. Toward these ends, I analyzed the market for Pharmacia common stock, the price behavior of the stock, and the factors that are generally accepted to be indicative of market efficiency. I examined Company press releases, conference call transcripts, equity analyst reports, news articles, Company documents obtained through discovery, SEC filings, trading volume, FDA reviewer reports, the performance of the overall stock market, and the performance of Pharmacia's peers, as well as other pertinent data and documents. Exhibit-1 lists the documents I reviewed and relied upon in the course of this engagement.
- 3. This report presents my methodology, findings, and conclusions.
- 4. I understand that expert discovery is ongoing in this case. I may revise my report as additional information becomes available and as I conduct further analyses.

CREDENTIALS

- 5. I, Steven P. Feinstein, am an Associate Professor of Finance at Babson College, and the president of Crowninshield Financial Research, Inc., a financial economics consulting firm.
- 6. I hold a Ph.D. in Economics from Yale University, a Master of Philosophy degree in Economics from Yale University, a Master of Arts in Economics from Yale University, and a Bachelor of Arts degree in Economics from Pomona College. I also hold the Chartered Financial Analyst ("CFA") designation, granted by the CFA Institute.
- 7. At Babson College I have taught undergraduate and MBA level courses in Valuation, Investments, Equity Analysis, Fixed Income Analysis, Financial Management, Risk Management, Capital Markets, and Quantitative Methods. I have also taught executive

- courses on investments and corporate financial management for numerous corporations. Other courses I have taught are listed in my curriculum vitae, which is attached as Exhibit-2.
- 8. At Babson College, I have held the Chair in Applied Investments and served as the Director of the Stephen D. Cutler Investment Management Center, a research and education center dedicated to the study and teaching of investments and capital markets.
- 9. Prior to my joining the faculty at Babson College, I taught finance at Boston University. Previously, I was an Economist at the Federal Reserve Bank of Atlanta where my primary responsibilities were to monitor financial markets, analyze proposed regulation, and advise the Bank President in preparation for his participation in meetings of the Federal Open Market Committee the government body responsible for monetary policy in the United States.
- 10. I have published extensively in the field of finance. My finance articles have appeared in The Journal of Forensic Economics, Atlanta Federal Reserve Bank Economic Review, Derivatives Quarterly, Derivatives Weekly, The Engineering Economist, The Journal of Risk, The American Bankruptcy Institute Journal, The Journal of Financial Planning, Risk Management, and Primus. A recent article has been accepted for publication and is forthcoming in Managerial Finance. I am the author of Finance and Accounting for Project Management, published by the American Management Association. I wrote two chapters in the book The Portable MBA in Finance and Accounting one on corporate financial planning and the other on risk management. I have presented research at the annual conventions of the American Finance Association, the Academy of Financial Services, the Multinational Finance Society, the Financial Management Association, and the International Conference on Applied Business Research. Co-authored papers of mine have been presented at the Eastern Finance Association meetings and the Midwestern Finance Association meetings.
- 11. I have been selected to review papers for numerous finance journals and conferences, and I have reviewed finance textbook manuscripts for Prentice-Hall, Elsevier, Blackwell, and Southwestern Publishing. I have been quoted on matters relating to finance and investments in *The Wall Street Journal*, *The Washington Post*, *The New York Times*, *The Financial Times*, *Bloomberg News*, and *The Boston Globe*, and my research relating to financial

- analysis and valuation has been discussed in *The Wall Street Journal*, *Bond Buyer*, and *Grant's Municipal Bond Observer*.
- 12. I am a member of the American Finance Association, the Financial Management Association, the North American Case Research Association, the CFA Institute, and the Boston Security Analysts Society, where I have served as a member of the education committee and ethics subcommittee. I served on the Fixed Income Specialization Examination Committee of the CFA Institute.
- 13. The CFA designation is the premier credential for financial analysts, worldwide. In order to receive this credential, applicants must pass a series of three exams covering such topics as equity analysis, financial valuation, business analysis, quantitative methods, investment analysis, portfolio management, risk management, financial accounting, and ethical and professional standards. For over ten years I taught in the Boston University CFA Review Program and the Boston Security Analysts Society CFA Review Program two of the leading review programs that prepared candidates for the CFA exams. In both of these programs I taught candidates at the most advanced level.
- 14. In addition to my teaching, research, CFA, and academic community responsibilities, I practice extensively as a financial consultant. Past and present clients include the United States Securities and Exchange Commission, the Internal Revenue Service, the Attorney General of the State of Illinois, and the National Association of Securities Dealers. As a financial consultant, I have conducted analyses and presented opinions related to market efficiency, artificial inflation, loss causation, and damages in over 50 securities cases. Exhibit-3 lists my prior testimony appearances over the past four years.
- 15. My firm is being compensated at a rate of \$675 per hour for my work on this matter, and my compensation is not contingent on my findings or on the outcome of this matter. I am the president and founder of the consulting firm Crowninshield Financial Research, which receives compensation for the work performed by analysts who assist me on this case.

CONCLUSIONS

- 16. Pharmacia stock traded in an efficient market over the course of the Class Period.
- 17. Pharmacia common stock satisfied the *Cammer* and *Krogman* factors, which were adopted and applied by the *DVI* Court, and which consistent with financial economic principles and empirical research indicate market efficiency.
- 18. Statistical tests prove that there was a cause and effect relationship between the release of new material information and movements in the Pharmacia stock price. This empirical result not only indicates market efficiency, but demonstrates the essence of market efficiency.
- 19. Over the course of the Class Period, the alleged misrepresentations and omissions caused the price of Pharmacia stock to be artificially inflated. This conclusion is based on an analysis of Company statements, FDA reviewer reports, analyst reports, news articles, and on event study analysis.
- 20. Event study analysis, which considered and accounted for potentially confounding information, proves that the alleged misrepresentations and omissions caused the price of Pharmacia stock to be artificially inflated. The corrective disclosures caused the inflation to dissipate, which in turn caused the stock price drop and investor losses.
- 21. As a result of the Defendants' misrepresentations and omissions, the market price of Pharmacia stock was artificially inflated by \$5.92 per share throughout most of the Class Period, and by amounts ranging up to \$5.92 as inflation dissipated between 6 February and 8 February 2001. No detectable inflation remained after 8 February 2001.
- 22. Any investor who purchased Pharmacia stock when the price was artificially inflated and held that stock beyond a corrective disclosure date suffered a loss that was caused by the alleged misrepresentations and omissions. The loss ranged up to \$5.92 per share, depending on the timing of the stock purchase and sale.
- 23. Aggregate damages estimated by a two-trader proportional trading model, incorporating conservative assumptions, and assuming the 90-day PSLRA "bounce-back" period begins on 8 February 2001, amount to \$1.38 billion, excluding prejudgment interest. When computed with the 90-day bounce-back period commencing on 5 August 2001, the last day of the Class Period, the estimate of aggregate damages is \$1.59 billion. The conservative nature of these estimates is confirmed by comparisons with the aggregate damage estimates

computed by a model based on institutional holdings. The institutional damage estimates were substantially higher than the estimates computed by the proportional trading model.

FACTUAL BACKGROUND

About the Company

- 24. Throughout the Class Period, Pharmacia was in the business of developing, manufacturing, and marketing pharmaceuticals.¹
- 25. Pharmacia Corporation was the product of the 31 March 2000 merger (the "Merger") of Pharmacia & Upjohn, Inc. ("PNU") and the Monsanto Company ("Old Monsanto"). Old Monsanto was renamed Pharmacia Corporation and PNU became a subsidiary of the combined Company. Shares of PNU were converted into 1.19 shares of the newly formed entity. Pharmacia's common stock began trading on the New York Stock Exchange ("NYSE") on 4 April 2000, under the ticker symbol PHA.
- 26. On 18 October 2000, Pharmacia Corporation spun-off 14.7% (the "Spin-Off") of the new Monsanto subsidiary ("New Monsanto"), through an initial public offering ("IPO") of New Monsanto shares. New Monsanto comprised the Company's chemicals and agricultural business. Later, on 13 August 2002, Pharmacia completed a spin-off of its remaining 85.3% stake in New Monsanto through a tax-free dividend.⁴
- 27. Excluding the revenue generated by New Monsanto, the Company produced operating revenue of \$12.7 billion in 2000 and \$13.8 billion in 2001.⁵ Net earnings were \$717 million in 2000 and \$1.5 billion in 2001, excluding the earnings derived from New Monsanto.⁶
- 28. As of the close of trading on 14 April 2000, the trading day prior to the start of the Class Period, Pharmacia's market capitalization (the aggregate value of all outstanding common shares) was \$66.3 billion, ⁷ according to share price data obtained from the Center for

⁴ "Pharmacia Completing Monsanto Spinoff Tuesday," *Reuters News*, 13 August 2002; and Pharmacia Corporation Form 10-K405 for the Fiscal Year Ended 31 December 2001, filed 5 March 2002, p. 3.

¹ Pharmacia Corporation Form 10-K405 for the Fiscal Year Ended 31 December 2001, filed 5 March 2002, p. 4. ² *Ibid.*, p. 3.

³ Monsanto Company Form 8-K, filed 25 January 2000.

⁵ Pharmacia Corporation Form 10-K405 for the Fiscal Year Ended 31 December 2001, filed 5 March 2002, p. 46.

⁷ Shares outstanding data were obtained from the Company's SEC filings. For the first 12 trading days of the Class Period, I used the 1,248.1 million shares reportedly outstanding as of the completion of the March 31 merger.

- Research in Security Prices ("CRSP").⁸ The market capitalization climbed to a Class Period peak of \$78.7 billion on 29 December 2000. By 6 August 2001, the day following the end of the Class Period, the Company's market capitalization had fallen to \$57.2 billion. The decline in market capitalization from the peak during the Class Period to the day after the Class Period was \$21.4 billion, 9 representing a loss of 27.2% of the Company's equity value.
- 29. On 14 April 2000, the trading day prior to the start of the Class Period, Pharmacia's common stock price was \$53.13 per share. The peak share price during the Class Period was \$61.00 per share on 29 December 2000. By 6 August 2001, the day after the Class Period, the stock price had fallen to \$44.00 per share. This drop represents a decline of 17.2% over the course of the Class Period and a decline of 27.9% from the Class Period high.
- 30. Pharmacia stock prices, dividends, trading volume, and logarithmic returns are shown in Exhibit-4.
- 31. After the Class Period, on 13 July 2002, Pharmacia entered into a definitive merger agreement with Pfizer. Upon completion of the transaction, Pharmacia shareholders received 1.4 shares of Pfizer stock for each share of Pharmacia.¹⁰

Background Information

- 32. The drug Celebrex (celecoxib) is a painkiller of the type known as a selective COX-2 inhibitor. Developed for sufferers of arthritis, Celebrex was intended to be a safer alternative to traditional non-steroidal anti-inflammatory drugs ("NSAIDs") such as ibuprofen, diclofenac, and aspirin, whose long-term use has been associated with ulcers and other gastrointestinal ("GI") problems.
- 33. The COX-1 enzyme helps protect the GI system. Because traditional NSAIDs block both COX-1 and COX-2 enzymes non-selectively, they diminish this protection. As a selective COX-2 inhibitor, Celebrex was intended to preserve the COX-1 enzyme's protection of the GI system while providing pain and inflammation relief comparable to that of traditional NSAIDs. Potentially free of the negative GI side effects, Celebrex was intended to offer a

⁸ CRSP is the preeminent provider of historical stock market databases used in academic financial research.

⁹ The slight arithmetic discrepancy is due to rounding.

¹⁰ Pharmacia Corporation Form 10-K for the Fiscal Year Ended 31 December 2002, filed 25 March 2003, p. 3.

- superior long-term treatment for patients suffering from osteoarthritis ("OA"), rheumatoid arthritis ("RA"), and other ailments.¹¹
- 34. Celebrex was developed by Searle, the pharmaceuticals division of Old Monsanto. The drug was approved by the U.S. Food and Drug Administration ("FDA") on 31 December 1998 to treat RA and OA. 12 It was launched in early 1999 and co-marketed with Pfizer. The launch was highly successful. Nearly 56,000 prescriptions were filled for Celebrex in its first three weeks on the market, and Celebrex sales totaled \$1.4 billion in 1999. At the time, Celebrex was the most successful drug launch ever. 13
- 35. Celebrex quickly became Pharmacia's largest revenue producer and was an important contributor to its revenue and earnings growth. Celebrex represented 20.7% and 22.5% of Pharmacia's pharmaceuticals sales for the fiscal years 2000 and 2001, respectively. In those same years, sales of Celebrex were 3.7 and 3.5 times greater, respectively, than sales of Pharmacia's second best selling drug, Ambien. Is
- 36. In spite of the drug's potentially improved GI safety profile, the FDA required that, until Searle performed more studies, Celebrex carry a warning label about bleeding, ulcers, and stomach perforations. ¹⁶ This was similar to the label required for traditional NSAIDs.
- 37. To provide the FDA with sufficient data to potentially remove Celebrex's GI warning label, Searle conducted the Celecoxib Long-Term Arthritis Safety Study ("CLASS"). The CLASS study was a double-blind outcomes trial involving approximately 8,000 arthritis patients, some of whom were given doses of Celebrex while control groups were given either ibuprofen or diclofenac, over a time span up to 15 months in length. The study was

¹¹ "Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," 21 June 1998, Exhibit-126 [DEFS 01380796].

¹² "DJBN Health-Care Report: FDA Clears Monsanto's Arthritis Drug," *Dow Jones Business News*, 31 December 1998.

¹³ "Pain, Pain Go Away Is Celebrex – the New Arthritis Drug – All It's Cracked Up To Be?" by Andrea Rock, *Money Magazine*, 1 April 1999, and "Chief Scientist Has Built His Reputation on Success," by Adam Goodman, *St. Louis Post-Dispatch*, 26 December 1999.

¹⁴ Pharmacia Corporation Form 10-K405 for the Fiscal Year Ended 31 December 2001, filed 5 March 2002, p. 32. ¹⁵ *Ibid*

¹⁶ "Pain, Pain Go Away; Is Celebrex – the New Arthritis Drug – All It's Cracked Up To Be?" by Andrea Rock, *Money Magazine*, 1 April 1999, and "Chief Scientist Has Built His Reputation On Success," by Adam Goodman, *St. Louis Post-Dispatch*, 26 December 1999.

- designed to assess the safety of Celebrex and compare the drug's safety with that of ibuprofen and diclofenac, two traditional and commonly used NSAIDs.¹⁷
- 38. When designing CLASS, the Company anticipated the study would achieve several beneficial objectives. Company planning materials indicated that regulatory objectives included facilitating a favorable label change that would differentiate Celebrex from traditional NSAIDs on the basis of GI safety.

"Far and away, the single largest item in the budget is the CLASS trials. These are large, GI event-based studies with the potential for major regulatory and commercial benefits.

Regulatory:

Such a study would:

- provide the basis for requesting a modification of the GI warning in the U.S. label in the event that that NSAID class warning is imposed on SCI labeling by FDA
- set a precedent for qualification of other compounds into the SCI Class
- be endorsed by the FDA Advisory Committee"

"Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," dated 21 June 1998, Exhibit-126, [DEFS 01380797].

39. The same Company planning document indicated that the CLASS study was intended to produce commercial benefits, quantified as an approximately \$300 million increase in peak sales.

"Commercial:

Such a study would:

- provide a publication in a high quality journal
- provide pharmacoeconomic data required in markets like Canada and Australia
- health care resource utilization which is of importance to managed care organizations

An outcome study is in keeping with best practices of competitors like Merck

It is estimated that such a study could contribute ~\$300 million change in peak sales based on:

¹⁷ "Incidence of Clinically Significant UGI Adverse Events vs Diclofenac (Revision 1)," 26 October 1998, Exhibit-77 [DEFS 00064858 – 00064941], and "Incidence of Clinically Significant UGI Adverse Events vs Ibuprofen," 18 August 1998, Exhibit-78 [DEFS 00064942 – DEFS 00065016].

- deletion of class warning
- participants in outcome studies have higher prescribing practices" "Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," dated 21 June 1998, Exhibit-126, [DEFS 01380798].

Timeline of Important Events

40. Among the important events relevant to an understanding of the Company's experience over the course of the Class Period and of the Plaintiffs' allegations are the following.

17 April 2000: Pharmacia Announces the CLASS Results

- 41. A joint press release issued by Pharmacia and Pfizer on 17 April 2000 announced the results of CLASS. The statement used glowing terms to characterize CLASS as "a landmark study," "groundbreaking," and a "rigorous outcomes trial [that] set the bar higher than any previous study of its kind." ¹⁸
- 42. Celebrex's performance in the study was also described in exceptionally positive terms.

"In a landmark study to assess the overall long-term safety of the COX-2 specific inhibitor Celebrex(R) (celecoxib capsules), arthritis patients taking four times the recommended osteoarthritis (OA) dose of the drug experienced fewer symptomatic gastrointestinal (GI) ulcers and ulcer complications than patients taking ibuprofen and diclofenac – a difference that was statistically significant based on a combined analysis of Celebrex versus these two traditional nonsteroidal anti-inflammatory drugs (NSAIDs).

. . .

The study, funded by Searle and Pfizer Inc, found that Celebrex patients experienced significantly fewer symptomatic GI ulcers and ulcer complications compared with ibuprofen or diclofenac. Celebrex was also associated with numerically fewer ulcer complications than the NSAID comparators among all patients, and 64 percent fewer of these serious events among non-aspirin users — a statistically significant difference." "New Findings Presented on Celebrex(R) Safety and Tolerability from Long-Term Outcomes Study of 8,000 Arthritis Patients," Pharmacia and Pfizer joint press release, *PR Newswire*, 17 April 2000.

43. According to the press release, Celebrex proved superior with respect to the frequency of ulcer complications when patients taking aspirin were excluded. Moreover, according to

¹⁸ "New Findings Presented on Celebrex(R) Safety and Tolerability From Long-Term Outcomes Study of 8,000 Arthritis Patients," Pharmacia and Pfizer joint press release, *PR Newswire*, 17 April 2000.

- the press release, when grouping ulcer complications together with symptomatic ulcers, Celebrex proved statistically superior to ibuprofen or diclofenac.
- 44. The press release quoted medical researchers validating the study, its results, and the implication that CLASS proved Celebrex to be safer with respect to GI effects.

"No previous study has examined such a broad range of GI side effects — which encompass events ranging from serious and often devastating GI ulcers and ulcer complications, to silent but medically important damage to the lining of the intestine, to symptoms like abdominal pain,' said Lee S. Simon, M.D., associate professor of medicine, Harvard Medical School. 'We've known the serious risks of traditional NSAIDs for some time, but these long-term findings show that patients taking Celebrex, in contrast to those on ibuprofen or diclofenac, experienced fewer treatment-related side effects in a number of important areas. These side effects often limit patients' ability to maintain their therapy and get the arthritis pain relief they require.'

. . .

'This rigorous outcomes trial set the bar higher than any previous study of its kind. It included a large number of patients who received four times the recommended OA dose of Celebrex for up to 13 months. It also compared Celebrex with commonly used traditional NSAIDs – ibuprofen, one of the most well tolerated; and diclofenac, extensively used throughout the world,' said Fred Silverstein, M.D., chairperson of the study's external review board. 'Even at these very high doses, Celebrex showed sustained safety and tolerability in organ systems often affected by NSAIDs. As such, these are compelling findings for physicians to consider when treating arthritis patients.'"

"New Findings Presented on Celebrex(R) Safety and Tolerability From Long-Term Outcomes Study of 8,000 Arthritis Patients," Pharmacia and Pfizer joint press release, *PR Newswire*, 17 April 2000.

45. The press release did not disclose that the entire study results were far less favorable to Celebrex than the publicly reported six-month results, as 6 of the 7 complicated ulcers occurring after the first six months of the CLASS trial were suffered by patients being treated with Celebrex, the reported GI comparisons worsened after six months, and the statistically significant benefit for Celebrex users not taking aspirin that Defendants reported based upon six months of data for complicated ulcers did not hold for the entire study period. Furthermore, Celebrex failed to establish any statistically significant difference with diclofenac on any of the GI endpoints considered, and diclofenac was

- actually numerically superior to Celebrex on one of the two co-primary endpoints of the study. 19
- 46. Morgan Stanley discussed the results of CLASS in an analyst report titled "Positive Results of Celebrex CLASS Trial Released," published the day following the joint press release. The Morgan Stanley analysts reported exactly what the release had represented, *i.e.*, that Celebrex patients experienced fewer symptomatic ulcers and ulcer complications compared to the NSAID treatment groups, and that the study had successfully differentiated the GI safety profile of Celebrex from that of the traditional NSAIDs.

"PHA and PFE announced positive results of the CLASS trial In most respects, the study served its purpose of differentiating the longterm safety profile of Celebrex from NSAIDs.

Celebrex patients experienced fewer symptomatic ulcers and ulcer complications than patients taking the comparator NSAIDs, ibuprofen and diclofenac."

"Positive Results of Celebrex CLASS Trial Released," by Jami Rubin, Mark Wiltamuth and Nancy Yu, Morgan Stanley Dean Witter, analyst report, 18 April 2000, p. 1 (emphasis in original).

47. Notwithstanding the fact that the CLASS trial "fell short" of its primary endpoint – establishing statistically significantly fewer ulcer complications among all patients taking Celebrex – the Morgan Stanley analysts commented that they had "anticipated the study to corroborate" the GI safety profile of Celebrex. For this reason, they would not change their sales forecasts for the drug.

"We are making no change to our forecasts, as we had anticipated the study to corroborate the strong safety profile of the product."
"Positive Results of Celebrex CLASS Trial Released," by Jami Rubin, Mark Wiltamuth and Nancy Yu, Morgan Stanley, analyst report, 18 April 2000.

48. The analysts concluded that, on the basis of the result achieved when grouping ulcer complications with symptomatic ulcers and on the basis of the result achieved among non-aspirin patients, the study "served its purpose of differentiating the long-term safety profile of Celebrex from NSAIDs."

 $^{^{19}}$ "New Findings Presented on Celebrex(R) Safety and Tolerability From Long-Term Outcomes Study of 8,000 Arthritis Patients," Pharmacia and Pfizer joint press release, 17 April 2000, Exhibit-67 [DEFS 00404977 – DEFS 00404980]; and Affidavit of Howard R. Philips, 18 October 2010, Attachments A – C.

49. From the close of trading on Friday, 14 April 2000, to the close of trading on Wednesday, 19 April 2000, the price of Pharmacia stock rose \$6.62 per share, from \$53.13 to \$59.75 per share, an increase of 12.5%.

25 April 2000: Q1 2000 Earnings and Conference Call

- 50. On 25 April 2000, Pharmacia announced Q1 2000 financial results and held a conference call with investors. During the call, Company executives reiterated the CLASS study results and their implications. Referring to CLASS, Pharmacia CEO Fred Hassan claimed that "new data" showed Celebrex's "exceptional safety profile."
- 51. Further, Executive VP Alan Heller touted the results of the "long-term" study and Celebrex's "broad safety profile" when compared against traditional NSAIDs, including diclofenac.

"[Alan Heller, Head of Searle Units, Pharmacia Corporation:] The top line take-away is that our landmark long-term arthritis study provides compelling evidence of the broad safety profile of Celebrex across a full spectrum of GI measures and in major organ systems versus the traditional NSAID comparators ibuprofen and diclofenac.

. . .

When we focus only [on] the most serious GI events, meaning ulcer complications, which include perforations, gastric obstructions and GI bleeds, among all patients including those using low-dose aspirin, Celebrex resulted in 52% fewer ulcer complications, a finding that was just under statistical significance. Among non-aspirin users, the difference was 65%, which was statistically significant."

"Pharmacia Corporation First Quarter Earnings Release Conference Call," 25 April 2000, Exhibit 336, [DEFS 01221352].

- 52. Investors and analysts were still not made aware of the facts set forth above in paragraph 45. They were not informed that the results for the entire CLASS study were far less favorable for Celebrex than what Defendants represented.
- 53. Responding to Pharmacia's Q1 2000 financial results, analyst reports were positive about the impact that the CLASS study would have on the Celebrex franchise. They anticipated that the new research would enable Pharmacia to remove the GI warning from the Celebrex label. Among other benefits, the label change would enable more widespread usage and reimbursement approval by managed care providers.

"Celebrex sales were impressive, although somewhat lower than we had expected. However, we continue to believe that Celebrex will show impressive growth during the coming quarters, fuelled by new research data."

"Ready for a Pick-Up Later This Year!" by Peter Sellei and Kristofer Liljeberg-Svensson, Carnegie, analyst report, 25 April 2000, p. 1.

"PHA will expand upon the recently announced GI safety data with a more complete presentation at the Digestive Disease Week Conference May 21-24. This data is expected to show much lower incidence of GI complications than traditional NSAID's, and an FDA filing this quarter could remove the NSAID warning label as soon as late 2000. This occurrence would open the door for more widespread usage at managed care facilities."

"Celebrex Poised to Bounce; AG Weakness Less Important," ABN AMRO, analyst report, 25 April 2000, p. 2.

"The 'next big thing' in the Celebrex story should take place around mid-year, when PHA and PFE are expected to submit a supplemental NDA (sNDA) with the results of their outcomes trial (the CLASS trial). Positive results of the trial were recently presented, demonstrating that OA and RA patients taking four times the recommended OA dose of the drug (800 mg/day) experienced fewer symptomatic gastrointestinal ulcers and ulcer complications than patients taking the other two drugs. The objective in submitting these trials to the FDA is to convince the agency to revise the label on Celebrex, which currently includes the standard NSAID warning. Removal, or even significant revision, of this warning would likely have a major positive impact on reimbursement practices and sales of the product."

"Ag Off to a Slow Start, but 2000 EPS In Tact," by Jami Rubin, Mark Wiltamuth and Nancy Yu, Morgan Stanley Dean Witter, analyst report, 26 April 2000, p. 3.

"We believe the long-term safety data generated by the CLASS (Celebrex) and VIGOR (Merck's Vioxx) trials will re-accelerate the coxibs' penetration of the NSAID market by removing the NSAID side effects warning label."

"Ag. Franchise in a Q1 Drought: Pharma Will Pick Up the Slack," by Ian Sanderson *et al.*, SG Cowen, analyst report, 26 April 2000, p. 3.

<u>22-23 May 2000: Presentation of CLASS Results at the Digestive Disease Week Conference</u> and Press Release

54. On the evening of 22 May 2000, at the Digestive Disease Week conference, Defendants once again presented findings drawn from the CLASS trial data.

55. The next day, Pharmacia and Pfizer issued a joint press release reiterating many of the initially reported findings.

"Under the real-world conditions of the study, significant decreases in the use of medical resources were shown in the Celebrex group versus the other NSAIDs studied. ... This amounted to 25 percent fewer office visits and complex work-ups for patients taking Celebrex."

"Findings from Celebrex(R) Safety Study Show Traditional NSAID Comparators Can Cause Serious GI Complications Within First Few Days of Treatment, No Increased Risk of GI Complications Observed for H. Pylori Positive Patients on Celebrex," Pharmacia and Pfizer joint press release, *PR Newswire*, 23 May 2000.

"Among non-aspirin users, patients on Celebrex taking four times the recommended dose for OA experienced significantly fewer ulcer complications compared with ibuprofen and diclofenac." *Ibid.*

56. In the press release Defendants labeled aspirin as an "independent risk factor for ulcers" and stated that removing aspirin patients from the analysis "offers a clearer picture" of Celebrex's GI safety profile.

"Patients who needed aspirin were allowed to participate in this study since a large number of patients with arthritis take low-dose aspirin for cardioprotection, as did one-in-five patients in this study. Excluding aspirin patients from the analysis, however, offers a clearer picture of the impact of Celebrex on GI safety since aspirin is an independent risk factor for GI complications. These patients experienced three-fold fewer (64 percent) ulcer complications, a statistically significant difference from the NSAID comparators. When patients taking aspirin for cardioprotection were added to the analysis, those on Celebrex experienced two-fold fewer ulcer complications versus the traditional NSAID comparators, narrowly missing statistical significance."

"Findings from Celebrex(R) Safety Study Show Traditional NSAID Comparators Can Cause Serious GI Complications Within First Few Days of Treatment; No Increased Risk of GI Complications Observed for H. Pylori Positive Patients on Celebrex," Pharmacia and Pfizer joint press release, *PR Newswire*, 23 May 2000.

- 57. Investors were still left unaware of the facts described above in paragraph 45.
- 58. Morgan Stanley analysts reported on the conference presentation. It appears they were under the impression that the data Defendants presented at the conference constituted all of the data generated by the CLASS study.

"The full data from the VIGOR and CLASS clinical outcomes studies were presented this week at the Digestive Disease Week (DDW) conference in San Diego.

Both studies successfully differentiated the long-term GI safety profile of the COX-2 inhibitors, Vioxx and Celebrex, relative to traditional NSAIDs."

"Positive Clinical Outcomes Studies Presented at DDW," by Jami Rubin, Mark Wiltamuth and Nancy Yu, Morgan Stanley Dean Witter, analyst report, 25 May 2000, p. 1.

59. These analysts apparently believed the data confirmed the superior GI safety of Celebrex.

They anticipated that the positive study results would be included on the product label, and that submitting the data to the FDA could ultimately result in removal of the GI warning.

"In our opinion, the data presented this week at the Digestive Disease Week conference serve to further validate the COX-2 inhibitors' differentiated safety profile in the GI tract. Both the VIGOR trial for Vioxx and the CLASS trial for Celebrex produced robust data documenting a significant reduction in symptomatic ulcers and ulcer complications relative to commonly prescribed NSAIDs. Though there were some differences in study designs and the results of the trials, neither product emerges as clearly superior to the other, in our opinion. At a minimum, we expect the labels of both products to be augmented to include this exciting new safety data, which should prove valuable in bolstering the marketing messages of both agents. Obviously, the ultimate goal of submitting these data is removal of the GI warning which appears in both products' labels (as well as those of all traditional NSAIDs)." "Positive Clinical Outcomes Studies Presented at DDW," by Jami Rubin, Mark Wiltamuth and Nancy Yu, Morgan Stanley Dean Witter, analyst report, 25 May 2000, pp. 5-6.

60. Internal Pfizer communications acknowledged that Defendants' representations related to the CLASS results and the GI safety profile of Celebrex had been accepted. In an email referring to the 23 May 2000 press release, Samuel Zwillich wrote:

[&]quot;They swallowed our story, hook, line and sinker..."

"CBX-0082360_RE: Good News on Celebrex," Company email from Samuel H. Zwillich to Mona M. Wahba, dated 23 May 2000, Exhibit-214, [DEFS 00728751] (ellipses in original).

13 September 2000: *JAMA* Publishes Article Authored by Pharmacia Employees and Consultants

- 61. From the early planning stages, one stated goal of the CLASS study was to "provide a publication in a high quality journal." Defendants considered that such an article publicizing the positive GI safety profile of Celebrex would be commercially valuable.²¹
- 62. On 13 September 2000, an article about the CLASS study, written by Pharmacia employees and paid consultants, was published in the *Journal of the American Medical Association* (*JAMA*).
- 63. The article reported clinical results only from the first six months of the study. It concluded, based only on the 6-month data, that Celebrex was safer than traditional NSAIDs.

"Participants: A total of 8059 patients (≥18 years old) with osteoarthritis (OA) or rheumatoid arthritis (RA) were enrolled in the study, and 7968 received at least 1 dose of study drug. A total of 4573 patients (57%) received treatment for 6 months.

. . .

Main Outcome Measures: Incidence of prospectively defined symptomatic upper GI ulcers and ulcer complications (bleeding, perforation, and obstruction) and other adverse effects during the 6-month treatment period.

. . .

Time-to-event analyses of upper GI ulcer complications alone or combined with symptomatic ulcers were performed based on cumulative event rates (symptomatic ulcers and/or ulcer complications) for the 6-month study period and are expressed as annualized incidence rates (number of events per 100 patient-years of exposure or percentage).

The incidences of treatment-emergent adverse effects or clinical laboratory changes in the different treatment groups during the 6 months were compared using the Fisher exact test.

. . .

[O]ur results demonstrate that celecoxib, at a dosage 2- to 4-fold greater than the maximum therapeutic dosages and those approved for labeling for RA and OA, is associated with a lower rate of upper GI toxic effects

²⁰ "Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," 21 June 1998, Exhibit-126, [DEFS 01380798].

²¹ *Ibid*.

compared with standard therapeutic dosages of NSAIDs. This finding supports the COX-2 hypothesis that COX-2–specific agents exhibit decreased GI toxic effects."

"Gastrointestinal Toxicity with Celecoxib vs Nonsteroidal Anti-inflammatory Drugs for Osteoarthritis and Rheumatoid Arthritis; the CLASS Study: A Randomized Controlled Trial," by Fred E. Silverstein, M.D., et al., Journal of the American Medical Association, 13 September 2000.

- 64. The *JAMA* article stated that the main outcome measure for the CLASS study was the incidence of, collectively, ulcer complications, symptomatic ulcers, and other adverse effects. The article reported that on this basis Celebrex proved superior to the comparator NSAIDs, statistically significantly so. The article also reported that when the patients taking aspirin were excluded, Celebrex "was associated with a significantly lower incidence of symptomatic ulcers and/or ulcer complications compared with NSAIDs."
- 65. The same *JAMA* issue included an editorial written by medical expert M. Michael Wolfe, a gastroenterologist at Boston University. Based on the findings reported in the article, Wolfe commented favorably on the CLASS study and Celebrex as a treatment option. The editorial described CLASS as "a 6-month randomized, double-blind, controlled trial."²²
- 66. On 13 September 2000, the date the publication appeared, Defendants issued a press release drawing attention to the *JAMA* article, the editorial, and the study findings as presented in the *JAMA* article.²³
- 67. Neither the article, nor the editorial, nor the press release made investors aware of the facts described above in paragraph 45.
- 68. The press reported on the publication of the *JAMA* article and its finding that Celebrex was found to be safer than traditional NSAIDs.

"For the first time, a major medical study showed that the hot-selling arthritis drug Celebrex is associated with less clinically significant gastrointestinal bleeding and fewer ulcers than are older arthritis drugs." "Gastrointestinal Benefit Cited for Celebrex," by Thomas M. Burton, *Wall Street Journal*, 13 September 2000.

²² "COX-2-Selective NSAIDs: New and Improved?" by David R. Lichtenstein and M. Michael Wolfe, *Journal of the American Medical Association*, 13 September 2000, Exhibit-4, [WOLFE 00001].

²³ "JAMA Study Shows Arthritis Medication Causes Fewer Gastrointestinal Problems than Traditional Drugs," Pharmacia, Pfizer, and the University of Illinois at Chicago College of Medicine press release, *PR Newswire*, 12 September 2000.

6-7 February 2001: FDA Posting of Review Reports and Advisory Committee Meeting

- 69. On or about 6 February 2001, prior to a meeting of the FDA's Arthritis Advisory

 Committee, the reports written by FDA reviewers that contained and analyzed CLASS data
 for the entire study were posted on the FDA's website. The postings included a 22-page

 "Statistical Reviewer Briefing Document for the Advisory Committee," a 93-page

 "Medical Officer's Gastroenterology Advisory Committee Briefing Document," a 100page "Medical Officer Review," and a 103-page "Sponsor Briefing Document." 25
- 70. While Defendants' earlier press releases, conference call statements, and conference presentations touted clinical results drawn from only the first six months of the CLASS study, and the *JAMA* article was similarly restricted to the first six months of the CLASS study, the FDA committee reviewed the entire approximately 13 months of CLASS data.
- 71. Late in the afternoon on 7 February 2001, the Advisory Committee released its conclusion that based on the full data set there was no significant GI safety advantage between the traditional NSAIDs and Celebrex. As a result, the Committee did not recommend that the FDA approve the label change Defendants sought.

"Scientific studies do not show that Pharmacia Corp.'s blockbuster arthritis treatment Celebrex is safer than traditional painkillers, a U.S. advisory panel said on Wednesday.

A Food and Drug Administration advisory committee said a study by Pharmacia unit Searle did not find that Celebrex caused fewer stomach-related side effects than other pain remedies known as NSAIDs, or nonsteroidal anti-inflammatory drugs.

'The consensus of the panel is there is no clinically meaningful safety advantage in upper (gastrointestinal) safety,' said acting panel Chairman E. Nigel Harris."

"No safety edge seen for Pharmacia's Celebrex-panel," *Reuters News*, 7 February 2001.

72. Commentary from the medical community and the financial media continued after the close of trading on 7 February 2001 and carried over to 8 February 2001.

²⁵ "CLASS Advisory Committee; Briefing Document," G.D. Searle & Co., dated 7 February 2001.

²⁴ Affidavit of Howard R. Philips, 18 October 2010, Attachments A – C, and "UPDATE 1-Safety of Popular Arthritis Drugs Under US Review," by Lisa Richwine, *Reuters News*, 6 February 2001.

"A seemingly magical bullet seems to have self-destructed ... It appears to have been grossly exaggerated and oversold,' said Dr. Sidney Wolfe, head of the Health Research Group at consumer group Public Citizen." "Update 2-US Panel Sees No Safety Edge for Celebrex," by Lisa Richwine, *Reuters News*, 7 February 2001.

"Celebrex shows a benefit in reducing 'symptomatic ulcers' vs other NSAIDs. Overall, Celebrex may be safer than the 'old NSAIDs', but the CLASS trial (at a dose 2-4x normal) did not convince the FDA committee."

"PHA: FDA Reviews Celebrex & Vioxx Safety Data," by Mark Striker and George Grofik, Salomon Smith Barney, analyst report, 7 February 2001, p. 1.

"FDA Panel Rejects Label Change. An FDA Advisory Committee rejected the notion that Celebrex, a COX-2 inhibitor, has a better safety profile NSAIDs. PHA shares sold off (3+%) based on concerns that Celebrex's growth will stagnate without a label change."

"CLASS Flunks Out," by Mara Goldstein, Steven Gerber, M.D., and Adam Sohn, CIBC, analyst report, 8 February 2001, p. 1.

- 73. The new information provided to the market was complex, voluminous, and irregular in that it ran contrary to prior representations and that its time of release was not scheduled with precision. Consequently, it took some time for the market to process the new information.
- 74. With sufficient time, on account of acquiring and processing the reports posted on the FDA website, on account of statements from the FDA Advisory Committee, and facilitated by media reports and analyst commentary, the market learned what had previously been concealed. In particular, the market learned that the entire study results were far less favorable to Celebrex than the publicly reported six-month results, as 6 of the 7 complicated ulcers occurring after the first six months of the CLASS trial were suffered by patients being treated with Celebrex, the reported GI comparisons worsened after six months, and the statistically significant benefit for Celebrex users not taking aspirin that Defendants reported based upon six months of data for complicated ulcers did not hold for the entire study period. The market also learned that Celebrex failed to establish any statistically significant difference with diclofenac on any of the GI endpoints considered,

- and that diclofenac was actually numerically superior to Celebrex on one of the two coprimary endpoints of the study.²⁶
- 75. From the close of trading on Monday, 5 February 2001, to the close on Thursday, 8 February 2001, the price of Pharmacia stock fell \$5.28 per share, from \$58.28 to \$53.00 per share, a 9.1% decline. As shown below, this is a statistically significant three-day stock price decline. Moreover, the single-day stock price declines on February 7th and 8th were statistically significant individually.

5 August 2001: Washington Post Exposé States Defendants Misled JAMA Editors and the Public

- 76. In a 5 August 2001 article, the *Washington Post* revealed that, at the time Defendants touted the GI safety purportedly demonstrated by the CLASS study, they actually possessed the full set of data indicating that Celebrex held no such advantage after the first six months.
- 77. M. Michael Wolfe, the gastroenterology expert whose favorable editorial about Celebrex had accompanied the *JAMA* article, was quoted as saying he was "flabbergasted" to learn that the study had lasted a year rather than just six months. While the six-month data appeared to show that Celebrex's GI safety profile was superior, most of the ulcer complications developed by CLASS patients in the latter half of the study were in Celebrex patients, eliminating the purported GI safety advantage.

"The study — already completed at the time he wrote the editorial — had lasted a year, not six months as he had thought, Wolfe learned. Almost all of the ulcer complications that occurred during the second half of the study were in Celebrex users. When all of the data were considered, most of Celebrex's apparent safety advantage disappeared."

"Missing Data on Celebrex; Full Study Altered Picture of Drug," by Susan Okie, Washington Post, 5 August 2001.

78. Dr. Wolfe expressed that he had been misled, and the editor of *JAMA* stated that Defendants' actions had perhaps broken a level of trust.

"I am furious. ... I wrote the editorial. I looked like a fool,' said Wolfe, a Boston University gastroenterologist. 'But ... all I had available to me was the data presented in the article.'

²⁶ Affidavit of Howard R. Philips, 18 October 2010, Attachments A – C.

JAMA's editor, Catherine D. DeAngelis, said the journal's editors were not informed about the missing data. 'I am disheartened to hear that they had those data at the time that they submitted [the manuscript] to us,' she said. 'We are functioning on a level of trust that was, perhaps, broken.'" 'Missing Data on Celebrex; Full Study Altered Picture of Drug," by Susan Okie, Washington Post, 5 August 2001.

79. The *Washington Post* exposé noted that the *JAMA* article, though apparently the result of deception, was commercially valuable to Pharmacia.

"Meanwhile, the JAMA article and editorial have likely contributed to Celebrex's huge sales. 'When the JAMA article comes out and confirms the hype, that probably has more impact than our labeling does,' said Robert J. Temple, director of medical policy at the FDA's Center for Drug Evaluation and Research."

"Missing Data on Celebrex; Full Study Altered Picture of Drug," by Susan Okie, Washington Post, 5 August 2001.

Post-Class Period: Confirmation of Deception

80. On 1 June 2002, after the end of the Class Period, the *British Medical Journal* published an article which, among other things, raised concerns about the conclusions and representations made in the 13 September 2000 *JAMA* article that touted the results of the CLASS study and the GI safety of Celebrex. Moreover, the authors believed that the "misleading" conclusions and "flawed findings" published in *JAMA*, along with the subsequent distribution of the article to physicians, coincided with approximately \$500 million of increased sales of Celebrex.

"[T]he flawed findings published in the original article appear to be widely distributed and believed. About 30,000 reprints of CLASS were bought from the publisher (W Bartolotta, personal communication), and a recent search of the Science Citation Index yielded 169 articles citing it, more than 10 times as many citations as for any other article published in the same issue. This wide distribution and citation has coincided with the sales of celecoxib increasing from \$2,623m in 2000 to \$3,114m in 2001.

Publishing and distributing overoptimistic short term data using post hoc changes to the protocol, while omitting disappointing long term data of two trials, which involved large numbers of volunteers, is misleading." "Are Selective COX 2 Inhibitors Superior to Traditional Non Steroidal Anti-Inflammatory Drugs?" by Peter Juni, Anne W S Rutjes, and Paul A Dieppe, *British Medical Journal*, 1 June 2002, 324, 7349, p. 1288.

81. According to an article titled, "The Credibility Gap in Drug Research," published in *BusinessWeek* on June 24, 2002, *JAMA* deputy editor Drummond Rennie stated that he was misled by Pharmacia executives into publishing incomplete and contradicted results.

"The British Medical Journal says the article was misleading because it omitted data that found no safety benefit for Celebrex. (The additional data were later made public at a Food & Drug Administration advisory committee meeting.)

G. Steven Geis, Pharmacia's vice-president for research, says information was omitted only because it was not reliable. On June 7, however, the FDA decided, using all the data, that the study 'did not show a safety advantage in upper gastrointestinal events for Celebrex.'

. . .

[Drummond Rennie, deputy editor at JAMA] is still rankled, however, by *JAMA*'s publication of the Celebrex study. The study's authors, including Pharmacia, 'were not open with us,' he says. 'They signed letters saying the studies have all the relevant stuff,' but 'they had contradictory results when they sent us this paper, and they should have revealed them to us. And they didn't.'"

"The Credibility Gap in Drug Research," by Paul Raeburn, *Business Week*, 24 June 2002.

EFFICIENT MARKET DEFINED

- 82. In a March 2011 decision in the case *In DVI, Inc.* No. 08-8033, 2011 U.S. App. LEXIS 6302 (3rd Cir. March 29, 2011) ("*DVI*"), the Third Circuit Court of Appeals ("*DVI* Court") reviewed and affirmed the determination made by the District court that the common stock and senior notes of DVI, Inc. traded in efficient markets.
- 83. For the definition of an efficient market, the *DVI* Court cited the Supreme Court's *Basic Inc. v. Levinson* 485 U.S. 224 (1988), decision.

"The fraud on the market theory is based on the hypothesis that, in an open and developed securities market, the price of a company's stock is determined by the available material information regarding the company and its business. ... Misleading statements will therefore defraud purchasers of stock even if the purchasers do not directly rely on the misstatements. ...' This hypothesis is known as the efficient capital market hypothesis."

DVI, 2011 U.S. App. LEXIS 6302, at *10-*13 (quoting Basic, 485 U.S. at 241-42).

- 84. This definition adopted by the *DVI* Court is consistent with the definition generally accepted by the academic finance community.
- 85. The *DVI* Court upheld the District court's analysis of market efficiency, which relied in large part on the factors identified in *Cammer v. Bloom* 711 F. Supp. 1264 (D.N.J. 1989), a case which is frequently cited as a legal authority for establishing the meaning of market efficiency in securities cases.

"The District court considered efficiency factors set forth in *Cammer v. Bloom*, 711 F. Supp. 1264, 1286-87 (D.N.J. 1989) ..." **DVI**, 2011 U.S. App. LEXIS 6302, *17 n. 14.

86. The definition of market efficiency set forth by Judge Alfred J. Lechner, Jr. in the *Cammer* decision in the New Jersey District Court ("*Cammer* Court") is similarly consistent with the definition generally accepted by the academic finance community:

"As relevant here, courts have permitted a rebuttable presumption of reliance in the case of securities traded in 'efficient markets' (*i.e.*, markets which are so active and followed that material information disclosed by a company is expected to be reflected in the stock price)."

Cammer, 711 F. Supp. at 1273 n. 11 (parentheses as in original).

87. Judge Lechner in the *Cammer* case cited the definitions offered by commentators Alan R. Bromberg and Lewis D. Lowenfels, and by finance professor Eugene Fama:

"An efficient market is one which rapidly reflects new information in price."

Cammer, 711 F. Supp. at 1276 n. 17 (quoting Bromberg and Lowenfels, Securities Fraud and Commodities Fraud, §8.6, 1988).

"A market in which prices always 'fully reflect' available information is called 'efficient."

Cammer, 711 F. Supp. at 1280 n. 25 (quoting "Efficient Capital Markets: A Review of Theory and Empirical Work," by Eugene F. Fama, Journal of Finance, 1970).

88. The definitions are consistent with one another. An efficient market, as defined by the *DVI* Court, the *Cammer* Court, The Supreme Court in *Basic*, Bromberg and Lowenfels, and Fama, is a market in which available information is rapidly incorporated into the prices of securities such that the trading price reflects all available information.

89. Market efficiency is relevant to a securities case as it addresses the question of whether or not false information (be it in the form of an alleged misrepresentation or an omission) would have impacted the prices at which investors bought and sold.

The *Cammer* Factors

90. The *Cammer* opinion lays out five factors that would suggest the market for a security is efficient. As elaborated below, economic rationales support each factor as an indicator of market efficiency. The five factors are: 1) trading volume, 2) coverage by securities analysts, 3) number of market makers, 4) eligibility for S-3 registration, and 5) empirical evidence that the security price reacts to material information. These factors were adopted by the District court in the *DVI* case for evaluating the efficiency of the market for DVI securities. Their use was deemed by the *DVI* Court to be proper:

"The District court considered efficiency factors set forth in *Cammer v. Bloom*: (1) the average weekly trading volume; (2) the number of security analysts following and reporting on the security; (3) the extent to which market makers traded the security; (4) the issuer's eligibility to file an SEC registration Form S-3; and (5) the cause-and-effect relationship between material disclosures and changes in the security's price." **DVI**, 2011 U.S. App. LEXIS 6302, at * 21 n. 14 (internal citations omitted).

"We have noted the *Cammer* factors may be instructive depending on the circumstances. Many of our sister circuits have also approved of their use."

DVI, 2011 U.S. App. LEXIS 6302, at *24 n. 16.

91. Empirical research has confirmed that volume, number of market makers, and analyst coverage are indicative of market efficiency:

"Consistent with the efficiency indicators used recently by the courts, the inefficient firms have lower mean trading volume, fewer market makers, lower analyst following, and lower institutional ownership (number and percentage) than efficient firms."

"The Fraud-on-the-Market Theory and the Indicators of Common Stocks' Efficiency," by Brad M. Barber, Paul A. Griffin, and Baruch Lev, *Journal of Corporation Law*, 1994, p. 302.

92. Barber, Griffin, and Lev [1994] did not test S-3 registration eligibility as an indicator of market efficiency, but it is noteworthy that the S-3 eligibility criteria include a minimum

market capitalization requirement, and large firm size is correlated with high institutional ownership, a factor which Barber, *et al.* did find to be indicative of market efficiency. With respect to the empirical factor, Barber, *et al.* used empirical tests as the standard for market efficiency by which to judge the significance of the other variables. Consequently, they acknowledge the importance of the empirical factor.

93. Consistent with financial economic theory and empirical research, the language used by the *Cammer* Court describes the factors not as five *necessary* factors, but rather as indicative of the degree to which the security market is expected to be efficient:

"There are several different characteristics pertaining to the markets for individual stocks which are probative of the degree to which the purchase price of a stock should reflect material company disclosures." *Cammer*, 711 F. Supp. at 1283.

94. In fact, the way the five factors are described in the *Cammer* opinion suggests that these five conditions are more akin to sufficient conditions individually, rather than necessary conditions collectively – again, consistent with economic theory. The *Cammer* opinion describes the nature of the five factors as follows:

"There are several types of facts which, if alleged, might give rise to an inference that Coated Sales traded in an efficient market. It is useful to set forth an explanation of how the existence of such facts would cause the understanding that disclosed company information (or misinformation) would be reflected in the company's stock price, the underpinning of the fraud on the market theory. *Peil, supra*, 806 F.2d at 1160." *Cammer*, 711 F. Supp. at 1285-86 (footnote omitted).

"First, plaintiffs could have alleged there existed an average weekly trading volume during the class period in excess of a certain number of shares."

Cammer, 711 F. Supp. at 1286.

"Second, it would be persuasive to allege a significant number of securities analysts followed and reported on a company's stock during the class period."

Cammer, 711 F. Supp. at 1286.

"Third, it could be alleged the stock had numerous market makers." *Cammer*, 711 F. Supp. at 1286.

"Fourth, as discussed, it would be helpful to allege the Company was entitled to file an S-3 Registration Statement in connection with public offerings ..."

Cammer, 711 F. Supp. at 1287.

"Finally, it would be helpful to a plaintiff seeking to allege an efficient market to allege empirical facts showing a cause and effect relationship between unexpected corporate events or financial releases and an immediate response in the stock price."

Cammer, 711 F. Supp. at 1287.

"As previously noted, one of the most convincing ways to demonstrate efficiency would be to illustrate over time, a cause and effect relationship between company disclosures and resulting movements in stock price." *Cammer*, 711 F. Supp. at 1291.

The Krogman Factors

95. In addition to the five *Cammer* factors that indicate market efficiency, the court in *DVI* also examined two factors set forth by the District court in *Krogman v. Sterritt* 202 F.R.D. 467 (N.D. Tex. 2001): 1) the company's market capitalization, and 2) the stock's float:

"In analyzing DVI's common stock, the court also examined two factors set forth in *Krogman v. Sterritt*, (1) the company's market capitalization; and (2) the size of the public float for the security."

DVI, 2011 U.S. App. LEXIS 6302, *24 n. 14 (internal citations omitted).

- 96. Market capitalization, the total value of all outstanding shares, equals the number of shares outstanding times the price per share. Reasonably, the larger the market capitalization, the more prominent and well known the company will be. Larger companies tend to attract wider analyst and news media coverage, and gain the attention of greater numbers of investors, including very large institutional investors. All of these characteristics, which accompany a large market capitalization, promote market efficiency.
- 97. The stock's float is the number of shares outstanding, less shares held by insiders and affiliated corporate entities.²⁷ It is generally the number of shares available for trading by outside investors in the open market. Of course, float is highly correlated with market capitalization, but it focuses on the shares available for trading rather than all shares

²⁷ For a discussion of the generally accepted definitions of shares outstanding and float, see *Float Adjustment Methodology*, Standard & Poor's, August 2006.

- outstanding. Stocks with large levels of float tend to trade more actively, attract more analyst and news media coverage, and garner the attention of greater numbers of investors, including large institutional investors. All of these characteristics, which accompany a high float level, promote market efficiency.
- 98. The District court in *Krogman*, and subsequently the Court of Appeals for the Fifth Circuit in *Unger v. Amedisys Inc.*, 401 F.3d 316 (5th Cir. 2005), evaluated one additional factor considered to be indicative of market efficiency, the typical bid-ask spread.
- 99. The bid-ask spread is the difference between the price at which market makers are offering to buy a security and the price at which they are offering the security for sale. For a security that is actively traded and for which information is readily available, the bid-ask spread will tend to be narrow. Moreover, a narrow bid-ask spread makes trading in the security less costly for investors, and thereby tends to attract greater interest, greater coverage, and greater volume. These conditions, in turn, are generally considered to promote market efficiency.

EFFICIENCY OF THE MARKET FOR PHARMACIA COMMON STOCK

100. To assess whether or not the market for Pharmacia common stock was an efficient market, I analyzed the market and behavior of Pharmacia common stock, focusing on factors that are generally accepted to be indicative of market efficiency for a publicly traded security. These include the five *Cammer* factors and the three *Krogman* factors.

Trading Volume

- 101. Throughout the Class Period, Pharmacia's common stock traded regularly and actively. On average, 4.6 million shares changed hands daily. On one day alone, 16 July 2001, over 13.3 million shares traded.
- 102. In addition to average daily trading volume, another volume metric to consider in determining market efficiency is the percentage of outstanding shares that turn over each week. During the Class Period, the average weekly trading volume was 1.8% of shares

²⁸ Financial data provided by CRSP.

- outstanding.²⁹ This level of trading activity exceeds levels accepted by courts as being indicative of market efficiency for common stocks.³⁰ In the case of the common stock of Coated Sales, Inc., the *Cammer* Court cited the conclusion of Alan R. Bromberg and Lewis D. Lowenfels that "weekly trading of 2% or more of the outstanding shares would justify a strong presumption that the market for the security is an efficient one; 1% would justify a substantial presumption."³¹ Trading volume for Pharmacia common stock during the Class Period was well above the threshold for a substantial presumption of its market efficiency, and closer to the 2% threshold for a strong presumption.
- 103. Both in terms of average daily trading volume and on the basis of the percentage of outstanding shares traded weekly, the market for Pharmacia common stock was very active. Consistent with the *Cammer* opinion and economic theory, the active trading volume in Pharmacia's common stock evinces the efficiency of the market for Pharmacia common stock over the course of the Class Period.

Analyst Coverage and Other Avenues of Information Dissemination

Analyst Coverage

- 104. Securities analysts disseminate and interpret information about the companies they cover. Conducting research and providing valuation opinions, they help market participants acquire relevant information and understand its implications for valuation and investment decisions. Consequently, securities analysts facilitate the flow of information and the digestion of information within the marketplace. These functions promote market efficiency.
- 105. Pharmacia was the subject of broad analyst coverage during the Class Period. The Thomson Research database provides access to analyst reports on Pharmacia published by 18 different firms during the Class Period: ABN AMRO; Argus Research; Bear Stearns; Carnegie Group; CIBC; Credit Suisse First Boston; Deutsche Bank Securities; DLJ; ING Barings; Morgan Stanley; Paine Webber; PNC Advisors; Prudential; Raymond James; Robertson Stephens; SG Cowen; Solomon Smith Barney; and UBS Warburg.

²⁹ Estimated by dividing the average daily volume by the average number of shares outstanding, times 5 (the number of trading days in a typical week).

³⁰ Cammer, 711 F. Supp. at 1286.

³¹ Cammer, 711 F. Supp. at 1293 (internal citation omitted).

- 106. The Company's conference call transcripts for 25 April 2000, 25 July 2000, 30 October 2000, 12 February 2001, 25 April 2001, and 25 July 2001 show an additional 10 firms that were covering Pharmacia: Alliance Capital; Bank of America; BT Alex.Brown; Brown Brothers; Capital Research; Goldman Sachs; JP Morgan; Lincoln Capital; Merrill Lynch; and Oppenheimer.
- 107. Consequently, at least 28 firms covered Pharmacia during the Class Period.
- 108. Consistent with the *Cammer* opinion and financial economic principles, the widespread analyst coverage of Pharmacia is evidence of the efficiency of the market for Pharmacia's common stock during the Class Period.

Institutional Ownership and Buy-Side Analysis

- 109. Large investment firms generally employ financial analysts who conduct internal research on the stocks they buy. This internal research augments the more broadly disseminated research produced by investment banks and brokers. Consequently, institutional ownership of a company's stock indicates greater analyst coverage.
- 110. Moreover, published empirical research has established that high levels of institutional ownership are another indicator of market efficiency:

"Stocks with greater institutional ownership are priced more efficiently, and we show that variation in liquidity does not drive this result.

. . .

We find that greater institutional holdings are associated with improved efficiency, and this result is robust across different measures of efficiency, different econometric specifications, and a variety of controls. ... Overall, our findings imply that the presence of institutional investors improves the information environment of a firm."

"Institutional Investors and the Informational Efficiency of Prices," by Ekkehart Boehmer and Eric K. Kelley, *The Review of Financial Studies*, 2009, pp. 3563, 3592.

111. Vickers Stock Research Corporation ("Vickers") provides data on institutional ownership of Pharmacia common stock. The data are compiled from the 13-F filings that major investment institutions are required to submit to the SEC. Major institutions are defined as firms or individuals that exercise investment discretion over the assets of others in excess of \$100 million. Large investment firms generally employ financial analysts who conduct

their own research on the stocks they buy. According to the Vickers data, at least 1,573 major institutions owned Pharmacia common stock during the Class Period.³²

News Coverage and Other Information Dissemination Vehicles

- 112. The news media also facilitate the flow of material information to the marketplace thereby promoting market efficiency. In the case of Pharmacia, coverage by the news media was extensive. A search of the Factiva database established that at least 2,770 articles about the Company were published during the 476-day Class Period.³³
- 113. The articles obtained from Factiva include published news articles and press releases.

 Information also emerged throughout the Class Period in the form of SEC filings, conference calls, and Company presentations. Therefore, during the Class Period, information about Pharmacia was readily available to market participants as there was a consistent flow of news issuing from news media, analysts, and various other sources.
- 114. Pharmacia was not an obscure company, escaping the notice of the news media, analysts, and investors. Rather, Pharmacia was large, well known, widely covered, and widely held. These facts strongly support a finding that the market for Pharmacia common stock was an efficient market during the Class Period.

Market Makers and Listing on the New York Stock Exchange

115. The number of market makers is one of the factors the *Cammer* Court determined indicates market efficiency. The subject company of the lawsuit in the *Cammer* case, Coated Sales, Inc., was listed on the NASDAQ, an electronic stock exchange that makes use of multiple competing market makers. Market makers are financial intermediaries who trade in a particular security, standing ready to buy and sell with investors and institutions. Consequently, for a NASDAQ-listed stock, a large number of market makers implies that many market participants are trading that particular stock. It further implies a high degree of liquidity. With a large number of market makers it is generally easy for investors to execute trades in a timely fashion and with reasonable transaction costs.

Corporation" was the "Company" search field parameter.

³² At least 1,573 institutional investors held Pharmacia common stock according to filings that reported holdings as of 30 June 2000, 30 September 2000, 31 December 2000, 31 March 2001, and 30 June 2001. Additional institutions may have held Pharmacia common stock during the Class Period, though not on these quarterly reporting dates.

³³ Based on a Factiva search of "All Sources" for articles published during the Class Period where "Pharmacia

- 116. The *Cammer* Court's understanding that the market-making infrastructure of a stock market is indicative of its efficiency, or lack thereof, makes the fact that Pharmacia common stock traded on the venerable New York Stock Exchange highly relevant.
- 117. The NYSE is one of the most renowned, most liquid, and most efficient forums for trading stocks in the world. Stocks on the NYSE are traded under the supervision of a lead market maker known as a "specialist." Specialists are responsible for maintaining a fair and orderly market for each security to which they are assigned.³⁴
- 118. In fact, citing Bromberg and Lowenfels, the *Cammer* Court explicitly acknowledged the importance of an NYSE listing and the implications of such a listing on market efficiency.

"We think that, at a minimum, there should be a presumption – probably conditional for class determination – that certain markets are developed and efficient for virtually all the securities traded there: the New York and American Stock Exchanges, the Chicago Board Options Exchange and the NASDAQ National Market System."

Cammer, 711 F. Supp. at 1292 (quoting Bromberg and Lowenfels, Securities Fraud and Commodities Fraud, §8.6, 1988).

119. The *DVI* Court concurred that a listing on the New York Stock Exchange generally indicates market efficiency.

"Accordingly, the listing of a security on a major exchange such as the NYSE or the NASDAQ weighs in favor of a finding of market efficiency."

DVI, 2011 U.S. App. LEXIS 6302, at *23.

- 120. While specialists are the most important market makers for NYSE stocks, they are not the only market makers. Generally, numerous brokers and dealers also make markets in NYSE-listed stocks, and the exchange specialist facilitates their market making activity.
- 121. The fact that it traded on the NYSE is strong evidence that Pharmacia common stock traded in an efficient market. Pharmacia's listing on the NYSE gave its stock access to a highly developed network of brokers and dealers and the oversight of an NYSE-designated specialist. These facts are important evidence of the efficiency of the market for Pharmacia stock.

³⁴ "Organization and Functioning of Securities Markets," by Frank Reilly and Keith Brown, in *Equity and Fixed Income CFA Program Curriculum*, vol. 5, Pearson Custom Publishing, 2008.

S-3 Registration Eligibility

122. The *Cammer* opinion noted that S-3 registration is indicative of market efficiency because a company is entitled to S-3 registration when, among other things, it has filed Exchange Act reports for a specified length of time and has outstanding float above a certain value. At the time of the *Cammer* opinion, the conditions for S-3 registration were that a company filed financial reports with the SEC for 36 months and had outstanding float over \$150 million held by non-affiliates, or \$100 million of float coupled with annual trading volume exceeding 3 million shares. The *Cammer* court noted that the filing requirement ensured that financial data were available to market participants, and the size and volume requirements indicated that many market participants would have examined the information.

"Proposed Form S-3 recognizes the applicability of the efficient market theory to the registration statement framework with respect to those registrants which usually provide high quality corporate reports, including Exchange Act reports, and whose corporate information is broadly disseminated, because such companies are widely followed by professional analysts and investors in the market place. Because of the foregoing observations made by the SEC, the existence of Form S-3 status is an important factor weighing in favor of a finding that a market is efficient"

Cammer, 711 F. Supp. at 1284-85 (internal citation omitted).

"The 'public float' aspect of the Form S-3 requirements ensures that enough investors have in fact read the previously filed document." *Cammer*, 711 F. Supp. at 1285.

"Again, it is the number of shares traded and value of shares outstanding that involve the facts which imply efficiency." *Cammer*, 711 F. Supp. at 1287.

123. The rules as of today grant S-3 eligibility to companies that have at least 12 months of filings and \$75 million of float.³⁵

³⁵ "Eligibility of Smaller Companies to Use Form S-3 or F-3 for Primary Securities Offerings," by the U.S. Securities and Exchange Commission, 28 January 2008.

Float

- 124. A company's float is the number or value of shares that can potentially trade freely in the marketplace. It is generally defined as the number or value of outstanding shares, minus insider holdings and shares owned by affiliated corporate entities.
- 125. I computed Pharmacia's common stock float from share data reported in Pharmacia's SEC filings and stock price data provided by CRSP.³⁶
- 126. Pharmacia common stock float averaged \$68.2 billion during the Class Period, far exceeding the level required for S-3 registration. The Company's float ranged between \$78.4 billion and \$54.4 billion during the Class Period. Even at its minimum, Pharmacia's common stock float was well over the threshold for S-3 registration under both the current rules and the more stringent original rules applicable at the time of the *Cammer* opinion.

Reporting

- 127. While Pharmacia, in its merged incarnation, was created just prior to the Class Period, both Old Monsanto and PNU, its constituent entities, had been filing financial reports with the SEC for a sufficient number of years prior to the Class Period to satisfy the S-3 requirement. Post-merger, Pharmacia remained current with SEC filings. Consequently, many years of past financial data on the Company's components were available to investors throughout the Class Period.
- 128. That Pharmacia satisfied the reporting requirement throughout the Class Period is evident in the Form S-3A the Company filed on 2 November 2000 to amend its Form S-3, filed on 20 September 2000. In the amendment, Pharmacia cited and incorporated by reference its Form 10-K for the year ended 31 December 1999, filed on 20 March 2000, as well as quarterly reports on Form 10-Q/A for the quarters ended 31 March 1999 through 30 September 1999. ³⁷ In the same S-3A filing, the Company cited and incorporated by reference three years of audited Monsanto financial statements.

"The financial statements of Monsanto Company (subsequently renamed Pharmacia Corporation) as of December 31, 1999 and 1998, and for each

³⁶ According to Proxy Statements filed 22 May 2000 and 16 March 2001, insiders held 4,609,723 and 2,202,778 shares as of 4 May 2000 and 5 March 2001, respectively. For the first 12 days of the Class Period, I used the 4,609,723 shares reportedly held as of 4 May 2000 as the approximate number of shares held by insiders after the merger.

³⁷ Pharmacia Corporation Form S-3A, filed 2 November 2000, pp. 14-15.

of the three years in the period ended December 31, 1999, incorporated by reference in this prospectus/registration statement have been audited by Deloitte & Touche LLP, independent auditors, as stated in their report which is incorporated herein by reference, and have been so incorporated by reference in reliance upon the report of such firm given upon their authority as experts in accounting and auditing."

Eligibility

129. Not only was Pharmacia eligible to undertake S-3 registration during the Class Period, it did file a Form S-3 registration on 20 September 2000 followed by a Form S-3A on 2 November 2000.³⁸

Pharmacia Corporation Form S-3A, filed 2 November 2000, pp. 13-14.

130. Consistent with the *Cammer* opinion, Pharmacia's eligibility to file an S-3 registration is evidence of the efficiency of the market for Pharmacia common stock during the Class Period.

Krogman Factors

131. In addition to the five *Cammer* factors that indicate market efficiency, I also examined Pharmacia stock and its market with respect to the three additional *Krogman* factors.

Market Capitalization

- 132. During the Class Period, Pharmacia's market capitalization averaged over \$68.4 billion.
- 133. The Ibbotson *Stocks*, *Bonds*, *Bills & Inflation* (*SBBI*) publications present annual statistics that rank the size of all public companies by market capitalization. Ibbotson groups public companies into deciles, so that the 1st decile contains the largest 10% of all public companies listed on the NYSE, American Stock Exchange, and NASDAQ, while the 10th decile contains the smallest 10%.
- 134. Pharmacia's average market capitalization of \$68.4 billion ranked in the 1st decile relative to all other publicly-traded companies in 2000 and 2001. This position means that

³⁸ Pharmacia Corporation Form S-3, filed 20 September 2000; Pharmacia Corporation Form S-3A, filed 2 November 2000.

- Pharmacia's market capitalization was larger than the market capitalizations of more than 90% of all other publicly-traded companies in the United States. ³⁹
- 135. Consistent with the *Krogman* Court opinion, Pharmacia's large average market capitalization is further evidence of the efficiency of the market for Pharmacia stock.

Outstanding Float Ratio

- 136. The magnitude of Pharmacia's float, as discussed above in relation to the S-3 eligibility factor, is likewise indicative of market efficiency.
- 137. For Pharmacia, the number of insider shares was a relatively small percentage of all outstanding shares. The maximum number of insider shares over the course of the Class Period divided by the minimum number of shares outstanding is 0.37%. This ratio implies that Pharmacia's float comprised nearly all its outstanding shares throughout the Class Period.
- 138. The *Krogman* opinion cited a high ratio of float to outstanding shares as an indicator of market efficiency. With respect to this measure, Pharmacia clearly exhibited market efficiency.

Bid-Ask Spread

- 139. From CRSP I obtained daily closing bid and ask quotes for Pharmacia stock.
- 140. I measured the percentage bid-ask spread as the difference between the ask and bid quotes, divided by the average of the bid and ask quotes, which is the standard way of measuring percentage bid-ask spreads in the finance literature. Exhibit-5 presents Pharmacia's bid-ask spread data.
- 141. The average bid-ask spread for Pharmacia stock over the course of the Class Period was 1.17%.
- 142. By comparison, the average month-end bid-ask spread over the course of the Class Period for all stocks in the CRSP database was 3.93%. Therefore, Pharmacia's average bid-ask spread was narrower than the mean level among all other CRSP stocks, which comprised stocks traded on the NYSE, Amex, NASDAQ, and NYSE Arca.

³⁹ Ibbotson 2000 Stocks, Bonds, Bills & Inflation (SBBI) 2000 Yearbook, Ibbotson Associates, 2000, and Ibbotson 2001 Stocks, Bonds, Bills & Inflation (SBBI) 2001 Yearbook, Ibbotson Associates, 2001.

- 143. On only one day (20 April 2001) out of the Class Period's 328 trading days was Pharmacia's bid-ask spread wider than the 3.93% average for all other CRSP stocks. Even then, at 3.98%, Pharmacia's bid-ask spread was only marginally higher than the average among other CRSP stocks. Moreover, Pharmacia's trading volume on that day was 7.48 million shares, indicating that the slightly higher bid-ask spread did not impede active trading.
- 144. The bid-ask spread in the market for Pharmacia stock over the course of the Class Period was lower than the typical bid-ask spreads exhibited by other publicly-traded stocks.

 Pharmacia's narrow bid-ask spreads support a conclusion of market efficiency.

EMPIRICAL EVIDENCE OF PHARMACIA COMMON STOCK MARKET EFFICIENCY

Special Importance of the Empirical Factor

145. Of the five *Cammer* factors, the empirical factor was cited by the *Cammer* Court as "one of the most convincing ways to demonstrate efficiency":

"As previously noted, one of the most convincing ways to demonstrate efficiency would be to illustrate, over time, a cause and effect relationship between company disclosures and resulting movements in stock price." *Cammer*, 711 F. Supp. at p. 1291.

146. The *DVI* Court agreed with the importance of the empirical factor:

"However, because an efficient market is one in which 'information important to reasonable investors ... is immediately incorporated into stock prices,' the cause-and-effect relationship between a company's material disclosures and the security price is normally the most important factor in an efficiency analysis."

DVI, 2011 U.S. App. LEXIS 6302, at *24 (internal citation omitted).

147. The special weight the *Cammer* and *DVI* Courts accorded the empirical factor is justified by economic principles, for the empirical factor focuses on the essence of market efficiency whereas the other factors are indicators that generally signal market efficiency.

Event Study Analysis

- 148. In order to investigate the empirical efficiency of the market for Pharmacia common stock, I conducted an event study. An event study examines whether a security price reacts appropriately to the release of new information. An appropriate and significant cause and effect relationship between the release of new material information and stock price movements demonstrates market efficiency.
- 149. The event study is the paramount tool for testing market efficiency, as Eugene Fama attests:

"The cleanest evidence on market-efficiency comes from event studies, especially event studies on daily returns. When an information event can be dated precisely and the event has a large effect on prices, the way one abstracts from expected returns to measure abnormal daily returns is a second-order consideration. As a result, event studies give a clear picture of the speed of adjustment of prices to information."

"Efficient Capital Markets: II," by Eugene F. Fama, *Journal of Finance*, 1991, p. 1607.

- 150. Event study analysis is one of the most commonly used analytic methodologies employed by finance researchers. MacKinlay [1997] presents an excellent description and examples of the methodology and writes about how it is generally accepted and widely used in academic research. Tabak and Dunbar [2001] write about how the methodology is generally accepted and widely used in forensic applications. 141
- 151. An event study measures how much a stock price rises or falls in response to new information. It first determines how much of a stock price change cannot be explained by market and sector factors. The portion of a stock price change that cannot be attributable to market and sector factors is called the residual stock price movement or "residual return." The event study isolates the residual return and also tests whether or not the residual return can reasonably be explained as merely a random fluctuation.
- 152. If the stock return is deemed statistically significant, it means that the stock price movement cannot be attributed to market and sector factors, or to random volatility, but rather was likely caused by company-specific information. Such proof of a cause and effect

⁴⁰ "Event Studies in Economics and Finance," A. Craig MacKinlay, *Journal of Economic Literature*, March 1997.

⁴¹ "Materiality and Magnitude: Event Studies in the Courtroom," by David Tabak and Frederick Dunbar, in *Litigation Services Handbook*, 3rd edition, John Wiley & Sons, New York, 2001.

relationship between new material information and the reaction in the stock price establishes market efficiency.

Event Selection Criterion

153. Not only did the *DVI* Court single out the empirical factor as most important, but it also recognized the special importance of the disclosure events:

"[T]he cause-and-effect relationship between a company's material disclosures and the security price is normally the most important factor in an efficiency analysis."

DVI, 2011 U.S. App. LEXIS 6302, at *24.

154. The *Cammer* Court also recognized the special importance of the disclosures and the specific information allegedly misrepresented or omitted that is the subject of the litigation:

"The central question under the fraud on the market theory is whether the stock price, at the time a plaintiff effected a trade, reflected the 'misinformation' alleged to have been disseminated."

Cammer, 711 F. Supp. at 1282 (emphasis in original).

"As previously noted, one of the most convincing ways to demonstrate efficiency would be to illustrate over time, a cause and effect relationship between company *disclosures* and resulting movements in stock price." *Cammer Opinion*, 711 F. Supp. at p. 1291 (emphasis added).

- 155. Consequently, the empirical behavior of Pharmacia common stock following the curative disclosures warrants focus in the event study testing the efficiency of the market for Pharmacia stock.
- 156. Forensic financial analysts David Tabak and Frederick Dunbar concur that disclosure events are reasonable choices for the focus of the event study:

"Many texts discuss how to perform an event study. While there are some differences in exposition, there is a uniform agreement in the literature on the necessary steps and general procedures to be followed. First, one must identify the event or events to be studied. In securities fraud cases, the events of interest usually include all the alleged disclosures of fraud and/or the dates when fraudulent statements were made."

"Materiality and Magnitude: Event Studies in the Courtroom," by David Tabak and Frederick Dunbar, in *Litigation Services Handbook*, 3rd ed., John Wiley & Sons, New York, 2001, p. 7.

157. Though Tabak and Dunbar suggest that either disclosures or misrepresentations can be selected as events for testing market efficiency, I elected to test the disclosure events. Disclosures, by their nature, generally entail the release of new information that changes the market's understanding of material facts, and therefore could reasonably be expected to move the security price. Misrepresentations, on the other hand, are often omissions or announcements that conceal adverse developments. As such, misrepresentations may introduce or maintain artificial inflation by preventing a security price from falling rather than causing the price to rise significantly. Consistent with this analysis, courts have accepted a focus on disclosure events:

"Given the common-law roots of the securities fraud action (and the common-law requirement that a plaintiff show actual damages), it is not surprising that other Courts of Appeals have rejected the Ninth Circuit's 'inflated purchase price' approach to proving causation and loss. See, *e.g.*, *Emergent Capital*, 343 F.3d, at 198 (inflation of purchase price alone cannot satisfy loss causation); *Semerenko*, 223 F.3d, at 185 (same); *Robbins*, 116 F.3d, at 1448 (same); cf. *Bastian*, 892 F.2d, at 685. Indeed, the Restatement of Torts, in setting forth the judicial consensus, says that a person who 'misrepresents the financial condition of a corporation in order to sell its stock' becomes liable to a relying purchaser 'for the loss' the purchaser sustains 'when the facts ... become generally known' and 'as a result' share value 'depreciate[s].' § 548A, Comment *b*, at 107."

Dura Pharms. Inc. v Broudo, 544 U.S. 336, 344, 125 S. Ct. 1627 (2005).

"And, of course, the materiality of the alleged misrepresentations is self-evident when we look at the market's negative reaction – to the tune of a nine-percent drop in stock price in three days – when defendants' analysis of the CLASS study was questioned in February 2001."

Alaska Electrical Pension Fund v. Pharmacia Corp., 554 F.3d 342, 352 (3rd Cir. 2009).

Disclosure Events

158. I reviewed the Complaint, the Third Circuit Opinion, and a wide variety of information sources, including news articles, press releases, FDA reviewer reports, equity analyst reports, and SEC filings to determine when corrective information related to the alleged misrepresentations and omissions was disseminated. The following is a list of the event dates selected using this criterion:

- i. 6-8 February 2001 The FDA posted its reviews of the CLASS study results on the FDA website. According to the FDA Advisory Committee, the full CLASS trial did not show Celebrex to have a "meaningful safety advantage" over ibuprofen or diclofenac. The FDA panel consequently did not recommend any change to the GI warning on the Celebrex label.
- ii. 6-8 August 2001 The *Washington Post* reported on Sunday, 5 August 2001, that the CLASS results presented in the *JAMA* article were drawn from only six months of data, whereas the CLASS study had produced more than a year of data. The article indicated that the misrepresentations and omissions related to the CLASS study may have been committed fraudulently.

Length of Event Window

- 159. The finance literature acknowledges that the market requires different amounts of time to process different types of information. When the timing of the information delivery is expected and when the type of information conforms to what is commonly analyzed, the processing tends to be quicker.
- 160. The Patell and Wolfson [1984] study is often cited as an authoritative examination of the normal speed of price adjustments for publicly traded stocks. ⁴² Patell and Wolfson focused their study on large companies that were actively traded and closely watched, representing firms whose markets are most likely efficient. They examined price reactions to earnings and dividend announcements.

"We should emphasize that our sample firms are large, actively traded, and closely watched."

"The Intraday Speed of Adjustment of Stock Prices to Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, *Journal of Financial Economics*, 1984, p. 250.

"This paper examines the effects of earnings and dividend announcements on the intraday behavior of stock prices." *Ibid.*, p. 223.

⁴² "The Intraday Speed of Adjustment of Stock Prices to Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, *Journal of Financial Economics*, 1984.

161. Nonetheless, Patell and Wolfson found reactions to earnings announcements often persisted into the second day following the announcement event. They noted that for less regular news, the price adjustment interval could be "significantly longer."

> "However, for the earnings announcements we also find significantly elevated returns during the overnight period following the release and at the opening of trading on the next day."

> "The Intraday Speed of Adjustment of Stock Prices to Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, Journal of Financial Economics, 1984, p. 224.

"The evening following the announcement provides an opportunity for news to be disseminated to investors who are unable to execute intraday trading strategies, and their actions may affect the overnight price change and the opening trades of the next day." Ibid., p. 235.

"It is possible that the adjustment intervals would be significantly longer for smaller firms, or for other, less regular announcements made by our sample firms."

Ibid., p. 250.

- 162. Earnings announcements are generally scheduled and are therefore expected. The core information such announcements deliver – earnings, revenues, and outlook – is of the type that analysts anticipate, are accustomed to receiving, and generally focus upon. Because it meets the timing and type criteria, earnings information is of the sort that would be processed by the market most rapidly. Patell and Wolfson stated that less regular announcements could take longer.
- 163. Unlike typical earnings announcements, the reports and analyses of the CLASS study comprised voluminous and complex scientific, medical, and statistical information. Company documents acknowledge this fact:

"The Advisory Board seemed to experience difficulty in analyzing and providing their advice on these large complex trials."

"FW: FDA Advisory Board Meetings on Celebrex and Vioxx, Feb. 7th and 8th," email from Alicia Byer, 14 February 2001, Exhibit-316 at [DEFS 03101711].

"Due to the complexity of the CLASS data, the advisory panel on day one (February 7) experienced difficulty interpreting the results."

"Q&A: FDA Advisory Committee Hearing on Proposed GI Safety Label Revisions for Celebrex®," dated 9 February 2001, Exhibit-262 at [DEFS 00754326].

"This was an extremely rigorous and complex trial, which made it difficult for the committee to analyze."

"Pharmacia/Pfizer Inc Statement on the FDA Arthritis Advisory Committee Meeting," dated 7 February 2001, Exhibit-314 at [DEFS 03101545].

164. The Circuit Court in this case likewise noted that the CLASS data at the center of the present case were highly complex and voluminous.

"But the staff reports span over 250 pages of highly complex scientific and statistical analysis."

Pharmacia, 554 F.3d at 349 (internal citations omitted).

- 165. Not only were the disclosure events in this case complex, but their timing was irregular. Neither the posting of the FDA briefing reports on the agency's website, nor the publication of the *Washington Post* exposé, conformed to a preannounced schedule.
- 166. Consistent with Patell and Wolfson's conclusions, therefore, the complex and irregularly timed disclosure events in the present case should take the market longer to process than typical earnings announcements. Accordingly, the price reaction would be more protracted.
- 167. Patell and Wolfson noted that some of the price adjustment interval is attributable to the time it takes for the news to be disseminated.⁴³ The *Cammer* and *DVI* Courts acknowledged that analyst coverage facilitates market efficiency. It follows logically that when analysts require more time to analyze a particular release of information, perhaps because it is complex or unexpected, the efficient market price response will also require additional time.
- 168. In fact, in this case, several analyst reports that facilitated the processing and dissemination of the new information about Celebrex that was released on 6 February 2001 and 7 February 2001 were published on 8 February 2001. The time required for analysts to digest

⁴³ Patell and Wolfson stated, "the evening following the announcement provides an opportunity for news to be disseminated to investors who are unable to execute intraday trading strategies, and their actions may affect the overnight price change and the opening trades of the next day." "The Intraday Speed of Adjustment of Stock Prices To Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, *Journal of Financial Economics*, 1984, p. 235.

- the new information speaks to the complexity and volume of the information. Moreover, the time required by analysts to write and distribute their reports extended the time it took the market to fully comprehend the import of the new information.
- 169. The *DVI* Court recognized that an efficient market does not necessarily require that market participants be able to fully process complex information instantaneously. The *DVI* Court held:

"We have addressed the speed with which information is incorporated into market price and explained that because a perfectly efficient market is not attainable, we do not require that public information be absorbed 'instantaneously.' Applying this standard, we have held that a market is inefficient when a price does not decrease within four days following an alleged corrective disclosure."

DVI, 2011 U.S. App. LEXIS 6302, at *27 (internal citations omitted).

"That some information took two days to affect the price does not undermine a finding of efficiency."

DVI, 2011 U.S. App. LEXIS 6302, at *28.

170. The position of the *DVI* Court is consistent with the academic and professional finance literature explaining that event windows should not necessarily be limited to a single day, but rather, as circumstances dictate, may extend to multiple days.

"In securities fraud cases, many experts have adopted the convention of looking at one-day, two-day, or five-day periods following an announcement."

"Materiality and Magnitude: Event Studies in the Courtroom," David I. Tabak and Frederick C. Dunbar in *Litigation Services Handbook, The Role of the Financial Expert,* 3rd ed., edited by Roman L. Weil, Michael J. Wagner, and Peter B. Frank, John Wiley & Sons, Inc., 2001, p. 19.4.

"The initial task of conducting an event study is to define the event of interest and identify the period over which the security prices of the firms involved in this event will be examined – the event window. For example, if one is looking at the information content of an earnings with daily data, the event will be the earnings announcement and the event window will include the one day of the announcement. It is customary to define the event window to be larger than the specific period of interest. This permits

examination of periods surrounding the event. In practice, the period of interest is often expanded to multiple days, including at least the day of the announcement and the day after the announcement."

"Event Studies in Economics and Finance," A. Craig MacKinlay, *Journal of Economic Literature*, March 1997, pp. 14-15.

- 171. Recognizing that stock price reactions may persist beyond the first or even second day following an event, published empirical studies commonly examine event windows longer than one day and run "cumulative event studies" on the multiday windows. There are many examples of such event studies in the academic literature. In fact, one of the very first published event studies, conducted by recognized leaders in academic finance, was a cumulative event study. "The Adjustment of Stock Prices to New Information," by Eugene Fama, Lawrence Fisher, Michael Jensen, and Richard Roll, which appeared in the *International Economic Review* in 1969, examined the reaction of stock prices to stock splits. These researchers ran a cumulative event study that aggregated stock price reactions over time and across different companies.
- 172. The seminal Fama, Fisher, Jensen, and Roll [1969] article spawned a great many academic studies using their cumulative event study methodology. These publications are well represented and respected in the scholarly literature.
- 173. In a survey of academic studies, Robert Bruner looked at numerous publications that utilized the cumulative event study methodology. Of the 21 articles he reviewed, 16 used event windows of five days or longer.⁴⁴
- 174. In a cumulative event study, the threshold for statistical significance rises as the length of the event window is increased. Therefore, the price reaction necessary to prove significance for a multiday event window is considerably higher than for a one-day event window.
- 175. Given the facts and circumstances of the disclosure events at issue in this case, to be consistent with generally accepted financial principles and practice, and consistent with the Third Circuit Court in *DVI*, I examined three-day windows following the disclosure events. I tested the price reactions on a cumulative basis as well as single days individually.

⁴⁴ "Does M&A Pay? A Survey of Evidence for the Decision-Maker," by Robert F. Bruner, *Journal of Applied Finance*, Spring/Summer 2002.

<u>Controlling for Potentially Confounding Factors: Removing Factors that Impact the Chemicals and Agricultural Business of New Monsanto</u>

- 176. As discussed above, over the course of the Class Period, Pharmacia's businesses included not only the pharmaceuticals business at issue in this case, but also the chemicals and agricultural business that was ultimately spun off with New Monsanto. From 18 October 2000 onward, New Monsanto stock was issued and traded freely in the marketplace, making it possible to observe that company's value on an aggregate and per share basis. It was further possible, therefore, to remove from the value of Pharmacia the value of its holdings in New Monsanto. In this way, the effect that any chemicals and agricultural related news might have wielded on the value of Pharmacia stock would be removed.
- 177. Removing the value of Pharmacia's holdings in New Monsanto focused the event study analysis on the pharmaceuticals business and eliminated the potential for the unrelated business to obscure the impact of pharmaceuticals news. That is, if the value of the New Monsanto holdings were not removed, information about Celebrex, for example, might impact the valuation of the pharmaceuticals portion of Pharmacia's business, but this impact could be obscured, or muted, by the weight of the chemicals and agricultural portion of the business.
- 178. The October 2000 Spin-Off initiated trading in New Monsanto stock even though Pharmacia maintained ownership of approximately 85.3% of that company. Using the market values of the New Monsanto stock, I computed the value of Pharmacia's aggregate holdings in New Monsanto, subtracted this value from Pharmacia's market capitalization, and then divided the remaining value by the number of Pharmacia shares outstanding. The result of these computations is the per share value of Pharmacia's pharmaceuticals business alone.
- 179. For example, on 15 November 2000, the price of New Monsanto stock was \$24.375 per share. Pharmacia owned 220 million shares of New Monsanto, representing a stake worth \$5,362,500,000 (equal to 220,000,000 shares times \$24.375 per share). The market capitalization of Pharmacia as a combined company was \$73,938,181,250, equal to the 1,269,325,000 outstanding shares of Pharmacia times the market price of \$58.25 per share. Subtracting the \$5,362,500,000 value of the New Monsanto stake from the \$73,938,181,250 market capitalization indicates that the value of Pharmacia stock

- excluding New Monsanto was \$68,575,681,250. Per Pharmacia share, the value of the Company excluding New Monsanto was therefore \$54.03 (\$68,575,681,250 divided by 1,269,325,000 shares).
- 180. For convenience of exposition, I term the per share value of Pharmacia's pharmaceuticals business, thusly computed, the "Pharmacia Pharmaceutical Stock Price." Exhibit-6 presents the time series of the Pharmacia Pharmaceuticals Stock Price along with the logarithmic returns based on these prices.

Controlling for Potentially Confounding Factors: Removing the Market and Sector Effects

- 181. One component of an event study is to determine how much of a company's stock returns are attributable to market and sector effects, so that these factors can be isolated and removed.
- 182. The method, which is generally accepted and widely used in econometric modeling, first involves running a regression to determine how the company's stock price typically behaved in relation to the overall stock market and its industry sector. Then, the regression model is used to determine how much of each event day's actual return is explained by the market and sector factors (the "explained return"). The actual return minus the explained return is the residual return.
- 183. In this case, the regression analysis removed from the returns on the Pharmacia Pharmaceuticals Stock Price that portion explained by the overall stock market and pharmaceuticals sector, thereby isolating the Pharmacia Pharmaceuticals Stock Price residual returns.
- 184. I ran the regression modeling the Pharmacia Pharmaceuticals Stock Price returns as a function of: 1) a constant term, 2) the returns of the overall stock market, and 3) the returns of a pharmaceuticals sector index. For the overall stock market factor I used the CRSP Market Total Return Index ("Market Index"), which is a generally accepted and widely used measure of the overall stock market performance. The Market Index appropriately incorporates payment of dividends by the constituent companies.
- 185. For the pharmaceuticals industry sector, I constructed an index ("Pharmaceutical Index") identical to the Dow Jones U.S. Pharmaceutical Index ("DJ Pharma Index"), with Pharmacia, Pfizer, and Merck removed. That is, I obtained from Dow Jones the

- constituents of the DJ Pharma Index in 2000 and 2001 and computed a value-weighted index of the remaining constituents.
- 186. Pharmacia was excluded from the sector index because it is the subject company, and the study aims at identifying rather than controlling for the impact of news about Pharmacia. Pfizer co-marketed Celebrex. Because the study aims at identifying rather than controlling for the impact of news about Celebrex, it is necessary to remove Pfizer from the sector index. Similarly, Merck was excluded because it sold a competing COX-2 inhibitor, Vioxx.
- 187. The levels and returns of the Market Index and the Pharmaceutical Index are presented in Exhibit-7.
- 188. I ran the regression on daily returns covering the period 19 October 2000 through 18

 October 2001. The estimation period begins on 19 October 2000 as this was the second day on which New Monsanto traded in the marketplace, which was therefore the first day on which the Pharmacia Pharmaceutical Stock Price return could be computed. The end of the estimation period was selected to be consistent with the widely accepted standard of using a one-year estimation period, when possible.
- 189. I used dummy variables for each day in the three-day window of each disclosure event to control for potentially abnormal returns on the disclosure dates being tested in the event study. Using an estimation period that surrounds the events of interest, and using dummy variables to control for the event dates in the regression estimation so that the model parameters properly reflect typical stock price movements, is a widely used and generally accepted methodology.⁴⁵

⁴⁵ See also: "Event Studies with a Contaminated Estimation Period," by Nihat Aktas, Eric de Bodt and Jean-Gabriel Cousin, *Journal of Corporate Finance*, 2007; "Measuring the Effects of Regulation with Stock Price Data," by John J. Binder, *The RAND Journal of Economics*, 1985; "Intervention Analysis with Applications to Economic and Environmental Problems," by G. E. P. Box and G. C. Tiao, *Journal of the American Statistical Association*, 1975; "Testing for Market Efficiency: A Comparison of the Cumulative Average Residual Methodology and Intervention Analysis," by David F. Larcker, Lawrence A. Gordon, and George E. Pinches, *Journal of Financial & Quantitative Analysis*, 1980; "Measuring Abnormal Performance: The Event Parameter Approach Using Joint Generalized Least Squares," by Paul H. Malatesta, *The Journal of Financial and Quantitative Analysis*, 1986; "Conditioning the Return-Generating Process on Firm-Specific Events: A Discussion of Event Study Methods," by Rex Thompson, *The Journal of Financial and Quantitative Analysis*, 1985.

"Three general choices for the placement of an estimation window are before the event window, surrounding the event window, and after the event window."

"Materiality and Magnitude: Event Studies in the Courtroom," David I. Tabak and Frederick C. Dunbar in *Litigation Services Handbook: The Role of the Financial Expert*, 3rd ed., edited by Roman L. Weil, Michael J. Wagner, and Peter B. Frank, John Wiley & Sons, Inc., 2001, p. 19.19.

"... [O]ne might consider creating a dummy [variable] to model the timing of important news announcements,"

Market Models: A Guide to Financial Data Analysis, Carol Alexander, John Wiley & Sons Ltd, 2001, p. 440.

- 190. All returns used in the event study are logarithmic returns that is, the natural logarithm of the ratio of the current day's closing price plus dividends to the previous day's closing price. Logarithmic returns are commonly used in event studies and equity analysis.

 Analysts and researchers generally use logarithmic returns instead of percent price changes because of various computational advantages.⁴⁶
- 191. The regression results, presented in Exhibit-8, show that returns on the Pharmacia Pharmaceutical Stock Price were significantly related to the returns of the Pharmaceutical Index, but not to the Market Index. The non-significance of the market index is not uncommon in stock return modeling that includes a sector index, as the sector index often captures the market effect as well as the sector effect.
- 192. I computed the explained portion of the Pharmacia Pharmaceutical Stock returns by adding: 1) the estimated regression intercept term, 2) the respective day's Market Index return multiplied by the regression's Market Index coefficient, and 3) the Pharmaceutical Index return multiplied by the regression's Pharmaceutical Index coefficient. The residual return is the actual return minus the explained return.

<u>t-test</u>

193. For each event, a statistical test called a *t*-test was conducted to determine whether the residual return can be explained by random volatility, or alternatively must have been caused by Company-specific information. A *t*-test compares the residual return following an event date to the typical residual returns exhibited in the estimation period. If the event residual return is far greater (positively or negatively) than the typical residual return, the *t*-

⁴⁶ The Appendix presents the mathematical formula for the logarithmic return and a discussion of the measure.

- test indicates that the residual return in question cannot have been caused by random volatility alone -i.e., it is statistically significant.⁴⁷
- 194. The event study results are presented below and summarized in Exhibit-9.

Event Study Results: 6-8 February 2001

- 195. On or about 6 February 2001, the FDA posted on its website results from the CLASS trials from the entire study period and its analysis of the results. The following day, 7 February 2001, the FDA Advisory Committee, on the basis of the results from the full CLASS study, recommended that the agency not approve the label change for Celebrex that Pharmacia had requested.
- 196. Over the three-day period, 6-8 February 2001, the Pharmacia Pharmaceutical Stock Price fell 11.18% (on a logarithmic return basis). Over the same period, the Market Index return was -1.48%, and the Pharmaceutical Index return was 1.00%. The three-day explained return for the Pharmacia Pharmaceutical Stock Price according to the regression model is positive 0.64%, which is the change one would expect in the value of the Pharmacia Pharmaceutical Stock Price on account of market and sector effects, absent any Company-specific information.
- 197. The difference between the actual three-day return of -11.18% and the explained return of 0.64% is -11.81%, which is the residual three-day return for the Pharmacia Pharmaceutical Stock Price. This three-day residual return of -11.81% from 6 February through 8 February 2001 is associated with a *t*-statistic value of -3.54. The likelihood of obtaining a residual return of this magnitude as a result of random volatility alone is only 0.05% (p-value equals 0.0005). Because it is so unlikely that the -11.81% residual return could have been caused by random volatility, the random volatility explanation can be ruled out. At the 0.05% significance level (equivalent to a 99.95% confidence level) therefore, the three-day residual return is statistically significant.

⁴⁷ The test is called the *t*-test because it involves the computation of a *t*-statistic. For a 1-day event window, the t-statistic is the one-day residual return divided by the standard error of the regression residual returns. For multiday event windows, the t-statistic is the cumulative residual return over the event window divided by the product of the standard error of the regression residuals multiplied by the square-root of the number of trading days in the event window. In either case, if the absolute value of the *t*-statistic is greater than the critical *t*-statistic value (1.96 for large samples), the likelihood that the residual return could have been caused by random volatility alone is less than 5%, which is generally accepted to be so unlikely that the random volatility explanation can be rejected.

⁴⁸ The slight arithmetic discrepancy is due to rounding.

- 198. Since market and sector effects were controlled for, effects of information related to the New Monsanto business were eliminated, and the random volatility explanation was rejected, it follows that the price decline must have been caused by Company-specific news related to Pharmacia's pharmaceuticals business.
- 199. In addition to the three-day price decline being statistically significant, so are the price declines on February 7th and 8th when considered individually. These results are confirmation of the reliability and accuracy of my analysis.
- 200. On 7 February 2001, the Pharmacia Pharmaceutical Stock Price declined 3.15%. The Market Index declined 0.88%, and the Pharmaceutical Index rose 1.19%. According to the regression model, the Pharmacia Pharmaceutical Stock residual return that day was -4.17%. This is an unusually large one-day residual decline. With a *t*-statistic of -2.16, this residual return is statistically significant at the 3.1% significance level (p-value equals 0.031, confidence level is 96.9%).
- 201. The following day, 8 February 2001, the Pharmacia Pharmaceutical Stock Price declined 6.61%. The Market Index declined 0.65%, and the Pharmaceutical Index rose 0.43%. According to the regression model, the Pharmacia Pharmaceutical Stock residual return that day was -6.91%. This is an unusually large one-day residual decline in the Pharmacia Pharmaceutical Stock Price. With a *t*-statistic of -3.59, this residual return is statistically significant at the 0.04% significance level (p-value equals 0.0004, confidence level is 99.96%).⁴⁹
- 202. That the residual returns on February 7th and February 8th each were statistically significant means that the magnitudes of the residual returns were so extreme that they could not reasonably have been caused by random volatility. By construction, the market factor, sector factor, and information related to the New Monsanto business were also eliminated as possible causes of the price declines. Therefore, each price decline must have been caused by Company-specific information about Pharmacia's pharmaceuticals business.
- 203. These event study results prove that there was a cause and effect relationship between the release of new material information and changes in the stock price the essence of market efficiency.

⁴⁹ The Pharmacia Pharmaceutical Stock Price declined \$0.75 on 6 February 2001. The residual decline was \$0.39, equivalent to 0.74%, which was not statistically significant.

Event Study Results: 6-8 August 2001

- 204. On Sunday, 5 August 2001, the *Washington Post* reported that the CLASS results presented in the *JAMA* article a year earlier were based on only six months of data, whereas the CLASS study actually had over a year's worth of data. The article noted that the *JAMA* publication and accompanying editorial were likely contributors to Celebrex's high sales. The Court of Appeals for the Third Circuit considered this event to be the final disclosure of the fraud and the end of the Class Period.⁵⁰
- 205. Over the next three trading days, 6 August 2001 through 8 August 2001, the Pharmacia Pharmaceutical Stock Price rose 1.51%. The three-day cumulative residual return was 2.73%.
- 206. A residual return of 2.73% for the three-day period is a relatively modest price movement for the Pharmacia Pharmaceutical Stock Price. That residual return is associated with a *t*-statistic value of 0.82 (p-value equals 0.414), which indicates that the residual return over the three-day period following the news on 5 August 2001 was not statistically significant. The single-day returns on the Pharmacia Pharmaceutical Stock Price over the period 6-8 August 2001 were not individually significant either.
- 207. The lack of a statistically significant return following the news on 5 August 2001 is reasonable. Although this was the first public discussion suggesting that Defendants may have had the intent to mislead, the results of the complete CLASS study had been released to the market six months earlier along with the FDA Advisory Committee reports. In the interim, the market had already revalued Pharmacia stock to reflect the negative economic impact of the CLASS results.
- 208. Since only new valuation-relevant information should cause a stock price reaction in an efficient market, the lack of significant movement following this event is consistent with market efficiency.

Event Study on Pharmacia Stock Returns without Removing New Monsanto

209. While it is appropriate and correct to computationally remove New Monsanto from the Pharmacia stock price as in the event study described above, in order to determine whether

⁵⁰ *Pharmacia*, 554 F.3d 342.

- the event study results depend on this adjustment, I re-ran the event study on the actual Pharmacia stock prices and returns, which combine the New Monsanto business with the pharmaceuticals business.
- 210. In this alternate event study, I included two sector indexes in the regression model, one to account for Pharmacia's pharmaceuticals business and the other to account for its chemicals business. In its year 2000 Proxy, the Company similarly compared its performance to pharmaceutical peers and chemical industry peers.⁵¹
- 211. For the chemicals portion of Pharmacia's business, I used the S&P Chemicals Index ("Chemicals Index"). Among other constituents, the Chemicals Index includes E.I. DuPont de Nemours and Company ("DuPont") and Dow Chemical, which were specifically cited by Old Monsanto and New Monsanto as being peer companies.⁵²
- 212. The index levels and returns of the Chemicals Index are presented in Exhibit-10.
- 213. I ran a regression modeling the return of Pharmacia stock as a function of: 1) a constant term, 2) the returns of the Market Index, 3) the returns of the Pharmaceutical Index, and 4) the returns of the Chemicals Index.
- 214. The regression was run on daily returns covering the period 19 October 2000 through 18 October 2001, the same estimation period used in the original event study. I again used dummy variables to control for 6-8 February 2001 and 6-8 August 2001.
- 215. The results of this estimation of the regression modeling of Pharmacia's stock returns are presented in Exhibit-11.
- 216. For the event dates, I computed the explained portion of the Pharmacia common stock return by adding: 1) the estimated regression intercept term, 2) the respective day's Market Index return multiplied by the Market Index coefficient estimated by the regression, 3) the Pharmaceutical Index return multiplied by the regression's Pharmaceutical Index coefficient, and 4) the Chemicals Index return multiplied by the regression's Chemicals Index coefficient.
- 217. The residual return for each date is the actual return minus the explained return.

⁵¹ Pharmacia Corporation – Form DEF 14A, filed 22 May 2000.

⁵² Monsanto Corporation – Form DEF 14A, filed 15 March 1999; Monsanto Corporation – Form DEF 14A, filed 16 March 2001.

Results of Alternative Event Study

- 218. The results of the event study on the Pharmacia stock price inclusive of New Monsanto are presented in Exhibit-12.
- 219. As was the case with the Pharmacia Pharmaceutical Stock Price, the unadjusted Pharmacia stock price fell on each of the three days 6 February 2001 through 8 February 2001. The cumulative three-day decline in response to the corrective disclosure was statistically significant. The single-day declines on 7 February 2001 and 8 February 2001 were also individually statistically significant.
- 220. Again as before, there was no statistically significant return following the publication of the *Washington Post* article on 5 August 2001.
- 221. Regardless of the test specification, the corrective disclosure event that occurred 6-8 February 2001 caused the price of Pharmacia stock to fall significantly.

Market Efficiency Summary and Conclusion

- 222. Pharmacia stock traded on the NYSE where trading is facilitated by a specialist who is a lead market maker. The Company was widely covered by analysts and the news media. Institutional ownership of Pharmacia stock was widespread. Trading was active. Market capitalization and float were high. Current and historical financial information about the Company were readily available to investors and analysts. The stock's bid-ask spread was narrow. The event studies proved that there was a cause and effect relationship between the release of new material information and movements in the Pharmacia stock price.
- 223. Pharmacia stock satisfied the *Cammer* and *Krogman* factor tests that indicate market efficiency. The *DVI* Court had also adopted these indicators. It is particularly noteworthy that Pharmacia stock satisfied the empirical *Cammer* factor, which the *DVI* Court had emphasized, as this factor demonstrates the essence of market efficiency.
- 224. Given these facts, I conclude that Pharmacia common stock traded in an efficient market over the course of the Class Period.

LOSS CAUSATION

- 225. Over the course of the Class Period, the alleged misrepresentations and omissions caused the price of Pharmacia stock to be artificially inflated. When the truth about the CLASS study emerged, the artificial inflation dissipated, causing the stock price to decline and investors to suffer losses.
- 226. These conclusions are based on a careful analysis of Defendants' statements, FDA reports, equity analyst reports, event study analysis focusing on the empirical reaction of the Pharmacia stock price to corrective disclosures, and analysis of potentially confounding information, as described next.

Company Statements Confirm the Materiality of the Alleged Misrepresentations and **Omissions**

- 227. Both prior to and during the Class Period, the Company acknowledged the importance of Celebrex to Pharmacia as well as the importance of the CLASS trial to Celebrex's future growth prospects.
- 228. Given the importance of the Celebrex franchise to Pharmacia's financial performance, misrepresentations and omissions that overstate the economic potential of the product would also inflate the value of the Company.

Importance of Celebrex to Pharmacia

- 229. Celebrex was the Company's largest product as measured by annual sales and was a strong contributor to Pharmacia's revenue and earnings growth. Celebrex represented 20.7% and 22.5% of Pharmacia's pharmaceuticals sales for the fiscal years 2000 and 2001, respectively. 53 For those same respective years, sales of Celebrex were 3.7 and 3.5 times greater than sales of Pharmacia's second best selling drug, Ambien.⁵⁴
- 230. That Pharmacia recognized Celebrex's extreme importance to its business and future prospects is illustrated in the following:

"Sales growth in the first quarter was driven by a 14% increase in U.S. pharmaceutical sales led by Celebrex (celecoxib), the leading prescription

⁵³ Pharmacia Corporation Form 10-K405 for the Fiscal Year Ended 31 December 2001, filed 5 March 2002, p. 32. ⁵⁴ *Ihid*.

arthritis medicine. Celebrex recorded sales of \$534 million in the quarter and has surpassed \$2 billion in total sales since its launch in the first quarter of 1999. ... Celebrex continues to gain sales after the best launch in pharmaceutical history. Physicians have now written more than 21 million prescriptions for Celebrex since its initial launch in the U.S. in 1999." "Pharmacia Corporation Reports 27% Increase in First-Quarter Earnings-Per-Share," Company press release, *PR Newswire*, 25 April 2000.

"[Alan Heller, Head of Searle Units, Pharmacia Corporation:] In the U.S. Celebrex continues to enjoy a substantial advantage versus Vioxx in refill rate, capsules per prescription, and average days of therapy per prescription meaning that every Celebrex new prescription leverages into substantially more sales for Pharmacia than Merck gets from a Vioxx new prescription."

"Pharmacia Corporation First Quarter Earnings Release Conference Call," 25 April 2000, Exhibit 336 at [DEFS 01221351].

"Commenting on the company's results, Pharmacia Chief Executive Officer Fred Hassan said: 'Our performance this quarter was driven by solid contributions from both our pharmaceutical and agricultural businesses. In our pharmaceutical business, we remain pleased with the acceptance of Celebrex by patients and doctors, and our agricultural business continues to grow satisfactorily."

"Pharmacia Reports 18% Increase in Second Quarter Earnings per Share," Company press release, *PR Newswire*, 25 July 2000.

"Celebrex, the number one selling prescription arthritis medication worldwide had sales of \$630 million in the quarter and \$1.2 billion in the first half. Celebrex is being launched in several key European markets in the second half. Celebrex is now benefiting from cross-selling opportunities through the combined sales forces of the new company." *Ibid.*

"[Fred Hassan, CEO:] As planned, the engines of this growth were our key global products, led by Celebrex. Carrie will talk in detail about our product performance so I'll highlight just a few points. Regarding Celebrex, we continue to be pleased with the strong U.S. performance as well as the expanding international performance. Underlying the good numbers is a very positive response to Celebrex by physicians and by patients."

"Pharmacia Teleconference: Second-Quarter Results and Outlook," transcribed from audio obtained from Bloomberg, 25 July 2000.

"[Carrie Cox, President of Global Business Management:] During the quarter, Celebrex clearly moved into the number one position as America's most prescribed arthritis product, surpassing Ibuprofen, the

long-time gold standard. Our goal is for Celebrex to keep a firm hold on the number one position in the market." *Ibid.*

The Importance of CLASS to Celebrex

- 231. As Celebrex was highly important to Pharmacia, so the CLASS trial was highly important to Celebrex. If CLASS were to demonstrate improved GI safety over traditional NSAIDs, Celebrex could gain greater acceptance among managed care providers, which would boost the product's sales.
- 232. Prior to Celebrex's approval and its attaining blockbuster status, the Company anticipated that successful CLASS study results would likely lead to FDA removal of the GI warning on Celebrex's label. Elimination of the warning was estimated to be worth approximately \$300 million in additional peak sales.

"It is estimated that such a study could contribute \$300 million change in peak sales based on:

- deletion of class warning
- participants in outcome studies have higher prescribing practices."
- "Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," dated 21 June 1998, Exhibit-126 at [DEFS 01380798].
- 233. The following public statements made by the Company further indicate the importance that was placed on the CLASS trial and its results.

"[Fred Hassan, CEO:] I would just like to underscore some key highlights. With Celebrex, we now have exciting new data that shows that Celebrex has a truly exceptional safety profile. This makes us feel good at a time when other products have been affected by safety concerns."

"Pharmacia Corporation First Quarter Earnings Release Conference Call," 25
April 2000, Exhibit 336 at [DEFS 01221348].

"[Alan Heller, Head of Searle Units, Pharmacia Corporation:] In addition to our European launches, another major growth driver will be the Celebrex long-term safety outcome study. The data presented to date is top line and first cut, but already a powerful story has emerged. ... The top

[&]quot;Among Pharmacia's many important innovations is Celebrex, the world's leading prescription arthritis medicine."

[&]quot;Pharmacia Corporation Reports 19% Increase in First-Quarter Earnings-Per-Share," Company press release, *PR Newswire*, 25 April 2001.

line take-away is that our landmark long-term arthritis study provides compelling evidence of the broad safety profile of Celebrex across a full spectrum of GI measures and in major organ systems versus the traditional NSAID comparators ibuprofen and dyclofenac." *Ibid.*, at [DEFS 01221352].

"[Fred Hassan, CEO:] As you may remember, we had mentioned that there are five engines of growth that will add \$4.5 billion in sales over the next three years. These five engines being Celebrex, Xalatan, Detrol, Camptosar and Zyvox. ... We are also very pleased with the CLASS data which has now come out for Celebrex and the European approval of Celebrex."

Ibid., at [DEFS 01221357].

"[Fred Hassan, CEO:] As a result of the new data that's coming out from Searle, as well as from Merck, we believe that the market is poised for major expansion over the next three or four years. And it will become very difficult for managed care to prevent access to these products, especially when you look at figures like 2 pints of blood loss with the older NSAIDs."

Ibid., at [DEFS 01221358].

"[Alan Heller, Head of Searle Units, Pharmacia Corporation:] Well, the only thing that I might add to that is that you have to recognize that something like 65% of the marketplace is still in the traditional NSAIDs. I think the strength of the data that we're showing, particularly with our outcome study, really speak to not only perhaps confirming some of the known dangers of the traditional NSAIDs but also points out some new and unexpected dangers such as the blood loss. That's really going be a powerful tool for us to penetrate that 65% of the business. I share Fred's confidence that some of the flatness in the prescriptions growth rate you saw in the first quarter will definitely be accelerating going forward." *Ibid.*, at [DEFS 01221358].

"[Alan Heller, Head of Searle Units, Pharmacia Corporation:] I obviously can't speak to the Vioxx label change, if they will get one at all, but our expectations is to have our sNDA filed before the end of the second quarter. And I think that the data is so significantly compelling to request from the FDA that they look at it on an expedited basis."

Ibid., at [DEFS 01221358].

"[Carrie Cox, President of Global Business Management:] Based on the efficacy and safety data from the CLASS, VIGOR, and recent head-to-head trials, we are more convinced than ever that Celebrex is a superior product to Vioxx with equal efficacy and a better safety profile. Celebrex

can also be used at higher doses for the severe pain of rheumatoid arthritis because there are no dose limiting safety issues. Moving forward, we plan to leverage the range of strong new data on Celebrex to create even more powerful support and momentum for the continuing conversion of traditional NSAIDs to Celebrex prescriptions."

"Pharmacia Teleconference: Second-Quarter Results and Outlook," transcribed from audio obtained from Bloomberg, 25 July 2000.

"[Carrie Cox, President of Global Business Management:] So, there is significant growth opportunities still there. We are, in fact, expecting growth in all major markets, next year, including the US. As you know, the long-term data is now available through publication. It has been submitted to the FDA for consideration. There is a significant data stream of new information coming to support the very strong profile of Celebrex both now for the rest of this year and coming into next year."

"Pharmacia Teleconference: Third-Quarter Results and Outlook," transcribed from audio obtained from Bloomberg, 30 October 2000.

"[Carrie Cox, President of Global Business Management:] In terms of the situation for Celebrex moving forward, the *JAMA* paper, as mentioned, was published in September, and that contains the results from the long-term outcomes studies. I think we've had lot of benefit in the marketplace of being able to use the data."

"Pharmacia Corporation 4Q 2000 Conference Call, 12 February 2001," Exhibit-401 at [DEFS-01221430 - DEFS-01221431].

234. As the above excerpts indicate, Defendants acknowledged that Celebrex was an important driver of the Company's sales and growth, and the CLASS study results were an important factor in promoting Celebrex's success.

Analysts and the Financial Media Deemed the Alleged Misinformation Material

235. Investment analysts and the financial press understood and commented on the importance of Celebrex to Pharmacia and the importance to Celebrex of the CLASS trial.

Analysts Considered Celebrex Important to Pharmacia

236. As is evident in the following excerpts from analyst reports published prior to and during the Class Period, analysts covering Pharmacia viewed Celebrex as highly important to Pharmacia's business and valuation:

- "Pharmaceutical earnings were propelled by the highly successful Celebrex, as expected, with EBIT jumping \$42 million (23%) to \$223 million, even with partnering down year-to-year."
- "Fourth Quarter Earnings on Target," by William R. Young and Nancy F. Traub, Donaldson, Lufkin & Jenrette, analyst report, 11 February 2000, p. 1.
- "Pharmacia & Upjohn's board might have looked at Monsanto principally for its recently launched blockbuster product Celebrex. If anything had been noticeably absent from the Pharmacia & Upjohn product line, it was a blockbuster."
- "A Comprehensive, Step-by-Step Analysis Going into the Merger with Pharmacia & Upjohn," by Andrew Cash, *et al.*, PaineWebber, analyst report, 16 March 2000, p. 8.
- "Celebrex Franchise: Shifting Into Overdrive. Simply put, Celebrex proved to be the single most successful new product launch in the history of the pharmaceutical industry, and it exceeded everyone's expectations." "Creation of New 'Porsche Pharma' Offers Potential To Be Better Than Biotech," by Richard Stover, Arnhold & Bleichroeder, Inc., analyst report, 22 March 2000, p. 15.
- "Monsanto's Coxib Franchise Drives 40-45% Of Pharmacia's Revenue Growth."
- "Pharmacia Corp. Starts Trading Today Great Prospects on Tap," by Ian Sanderson, et al., SG Cowen, analyst report, 3 April 2000, p. 2.
- "Celebrex, the COX-II inhibitor for the treatment of osteoarthritis and rheumatoid arthritis, is the crown jewel of Searle and remains the most important product in the Pharmacia portfolio."
- "Initiating Coverage with an Outperform Rating," by Jami Rubin, *et al.*, Morgan Stanley Dean Witter, analyst report, 4 April 2000, p. 5.
- "Additionally, Celebrex's rapid ascent to a \$2+ billion product this year (just two years post launch), should significantly boost cash flow, impacting the EPS line."
- "1Q00 EPS; Concerns over Top Line," by Mara Goldstein and Steven B. Gerber, CIBC World Markets, analyst report, 25 April 2000, p. 1.
- "Newer products continue to drive growth Celebrex, the market leading antiarthritic, co-promoted with Pfizer, recorded worldwide revenue of \$534 million (up 92%) in 1Q00."
- "1Q00 EPS In Line; Sales Disappointing with Just Modest Growth," by Jeffrey Chaffkin, et al., PaineWebber, analyst report, 26 April 2000, p. 2.

- "The Cox-II franchise, which includes Celebrex, remains the most important franchise for Pharmacia."
- "PHA Power Brunch with Dr. Goran Ando," by Jami Rubin, et al., Morgan Stanley Dean Witter, analyst report, 30 May 2000, p. 2.
- "Celebrex and the follow-up compounds that should sustain Pharmacia's COX-2 group of drugs beyond 2001 are expected to become a multibillion dollar franchise able to support the company growth for at least the next five years."
- "Initiating with a Strong Buy; A Blue Chip in the Making," by Sergio Traversa and Sena P. Lund, ING Barings, analyst report, 21 July 2000, p. 1.
- "U.S Pharmaceuticals sales jumped 26% in Q2, to \$1,710MM, aided by \$548MM (+92%) of Celebrex sales."
- "Ag. Products a Big Surprise (Positive) in Q2 EPS on Target," by Ian Sanderson, et al., SG Cowen, analyst report, 25 July 2000, p. 1.
- "Pharmacia is benefiting from increasing sales of painkiller Celebrex." "Initiating Coverage on Pharmacia Corp.," by Mike Krensavage and Michael Hearl, Raymond James & Associates, analyst report, 8 November 2000, p. 8.
- "Pharmaceuticals is the main driver, with sales growth potential in the mid-teens this year and next, driven largely by Celebrex."
- "PHA Monsanto Provides Transparency on Rx Value," by Jami Rubin and Mark Wiltamuth, Morgan Stanley Dean Witter, analyst report, 16 November 2000, p. 1.
- "Pharmacia is a compelling growth story driven by: the success of the blockbuster Celebrex."
- "A Solid Product-Driven Growth Story," by Sergio Traversa and Sena P. Lund, ING Barings, analyst report, 17 November 2000, p. 1.

The Financial Press Reported on the Importance of Celebrex

- 237. The financial press understood and reported the importance of Celebrex to Pharmacia's business, as is evident in the following quotes published prior to and during the Class Period:
 - "S&P also said that many of Monsanto's product lines enjoy above-average profitability and solid cash flow generation. It said Monsanto's G.D. Searle pharmaceuticals unit has staged a good profit recovery in recent years, led by the successful launch of its COX-2 drug, Celebrex, in early 1999."
 - "Pharmacia & Upjohn on S&P Watch-Negative," *Dow Jones Newswires*, 20 December 1999.

"Saks said Pharmacia would win immediate prominence by obtaining Monsanto's hot-selling Celebrex, which he expects to generate annual sales of over \$3 billion by 2002."

"Focus-Monsanto, Pharmacia & Upjohn Agree to Merge," by Emily Kaiser, *Reuters News*, 20 December 1999.

"After Monsanto developed Celebrex, executives decided that Searle's sales force was too small to realize the arthritis drug's full potential. They formed a partnership with Pfizer Inc., a larger drug company, to market Celebrex. Even so, Celebrex's success was enough to turn Searle from an underperformer to a star. Many Wall Street analysts were urging Monsanto to jettison the drug business a few years ago. They now say it's the most attractive part of the company."

"Monsanto, Pharmacia Will Merge," by David Nicklaus, St. Louis Post-Dispatch, 20 December 1999.

"Searle and Pfizer Inc. reported that Celebrex (celecoxib capsules) in its first year generated an unprecedented 19 M prescriptions, a volume unrivalled by any other prescription drug in its first year. In fact, Celebrex prescriptions now rival generic ibuprofen, the long-established leader in the arthritis market. Further, new prescriptions of Celebrex exceeded those of the next two leading blockbusters combined, Viagra (sildenafil citrate) and Lipitor (atorvastatin calcium), during the same post-launch period." "Celebrex at One Year – Helping Many Return to Daily Activities," Factiva Press Release Service, 29 February 2000.

"The company said sales growth in the first quarter was driven by a 14% increase in U.S. pharmaceutical sales led by Celebrex, an arthritis medicine."

"Pharmacia Corp. 1st Quarter Operating Net 33 Cents a Diluted Share Vs 26 Cents," *Dow Jones Newswires*, 25 April 2000.

"Analysts agreed that Celebrex, the COX-2 inhibitor for treating osteoarthritis and rheumatoid arthritis, is the key driver for Pharmacia." "Pharmacia Posts Profit Growth Despite Slower Sales Rise," by Beth M. Mantz, Dow Jones Newswires, 25 April 2000.

"The company's main earnings driver was a 92 per cent increase in sales of its anti-arthritic drug Celebrex."

"Pharmacia Posts 27% First-Quarter Rise," by Adrian Michaels, *Financial Times*, 26 April 2000.

- "I don't think he was forced out, because he did a great job with Celebrex which is by far the most important drug in the combined organization,' [Ian] Sanderson [SG Cowen pharmaceuticals analysts] said."
 "Pharmacia Says Former Monsanto Exec De Schutter to Retire," Reuters News, 4 May 2000.
- "Pharmacia boasts one of the strongest profit growth outlooks of any major drug company, owing in part to Monsanto's Celebrex, the popular painkiller."
- "Microsoft Ruling Fails To Deter Further Tech Gains," by Andrew Bary, *Barron's*, 12 June 2000.
- "SG Cowen analyst Ian Sanderson raised his rating on drug company Pharmacia Corp. to strong buy from buy on Friday. ... [C]alled Pharmacia 'a top pick.' ... 'Competitive position of the Celebrex/Valdecoxib franchise looks solid.""
- "Research Alert-SG Cowen Ups Pharmacia," Reuters News, 4 August 2000.
- "The accounting issue seems it will translate to higher expense levels in the future, said ABN AMRO analyst Mario Corso, citing that the milestones now were being used to offset sales and marketing expenses and research and development costs. But 'with big products like Celebrex ... those payments aren't too much of a concern,' he added."
- "Pharmacia 3rd Quarter Earns Story Overtaken by Co Future Guidance," by Beth M. Mantz, *Dow Jones Newswires*, 30 October 2000.
- "Pharmacia's previous offering in this class is Celebrex, its largest-selling drug."
- "Pharmacia Files for Pain Drug FDA Approval," Reuters News, 30 October 2000.
- "Celebrex is hugely important to Pfizer, of New York, and Pharmacia, of Peapack, N.J. Celebrex had one of the most successful drug launches ever; sales for the first three quarters of this year exceeded \$1.8 billion."

 "Pharmacia Corp., Pfizer Are Warned on Celebrex Ads," by Chris Adams, Wall Street Journal, 12 December 2000.
- "Industry analysts expect its best-selling COX-2 drug Celebrex to help drive strong fourth-quarter growth when the firm reports on February 12." "Davos-Pharmacia Seeks Acquisitions in Cancer Field," by Ben Hirschler, *Reuters News*, 28 January 2001.

Analysts Considered CLASS Important to Celebrex

238. The following statements from analyst reports published prior to and during the Class Period demonstrate that analysts covering Pharmacia regarded the CLASS trial as a very

positive development for Celebrex. Moreover, analysts apparently accepted Defendants' representations and remained uninformed about the alleged omissions.

"Dr. Needleman [Co-President and Chief Scientist of Monsanto] stated that the 'next big thing' for Celebrex is likely to be the submission of the long-term clinical outcome data. The data is currently being analyzed and the sNDA could be filed during the first half of this year. According to Dr. Needleman, these studies are being conducted in hopes that they will lead to a meaningful label revision - with the best case being a removal of the standard NSAID warning on gastrointestinal events from Celebrex's label."

"Summary of Comments by Phil Needleman," by Jami Rubin, *et al.*, Morgan Stanley Dean Witter, analyst report, 31 January 2000, p. 3.

"The imminent completion of the CLASS study, conducted to demonstrate a reduction in the incidence of severe GI side effects of ulcers and bleeds, should result in a supplemental filing to remove the NSAID class warning from the label. *This should prove to be the single most important event driving the expansion of the COX-2 inhibitors to a dominant position in arthritis treatment.* Further, the CLASS study evaluated the 800mg. dose (twice the maximum approved arthritis dose) which should add to expanding clinical evidence that Celebrex causes no dose-related increase in side effects.

. . .

In the final analysis, Celebrex is still very early in its life cycle and removal of the traditional NSAID class warnings from approved labeling should catapult the COX-2's to a dominant position in the prescription NSAID market. Further we believe, it will provide the ammunition for effective direct-to-consumer advertising to cannibalize much more rapidly on OTC NSAIDs and expand the prescription segment of the market." "Creation of New 'Porsche Pharma' Offers Potential To Be Better Than Biotech," by Richard Stover, Arnhold & Bleichroeder, Inc., analyst report, 22 March 2000, p. 16 (emphasis added).

"More significant Celebrex-related catalysts are slated for 2000. The next big thing in the Celebrex story should take place around midyear, when the companies are expected to submit a supplemental NDA (sNDA) with the results of their outcomes trial (the CLASS trial). These trials compare the incidence of serious gastrointestinal side effects (such as perforations, ulcers, and GI bleeds) experienced by patients on Celebrex versus traditional nonsteroidal anti-inflammatory drugs (NSAIDs). The objective in submitting these trials is to persuade the FDA to revise the label on Celebrex, which currently includes the standard NSAID warning.

Removal, or even significant revision, of this warning would likely have a major positive impact on reimbursement practices and sales of the product."

"Initiating Coverage with an Outperform Rating," by Jami Rubin, et al., Morgan Stanley Dean Witter, analyst report, 4 April 2000, p. 5 (emphasis added).

"The data was extremely positive,' said Barbara Ryan, a drug industry analyst at BT Alex. Brown, adding that it confirmed what had been presented from earlier, shorter-term studies. The real issue, she said, was whether the drug companies could convince the FDA to change the Celebrex labeling to indicate that it was safer than nonsteroidal anti-inflammatory drugs (NSAIDs)."

"Update 1-Long-Term Data Show New Arthritis Drug Safer," by Kathy Fieweger, *Reuters News*, 17 April 2000.

"On Monday before the market opened, PHA and PFE (\$38) announced positive results of their eagerly anticipated CLASS study. ... In most respects, the study served its purpose of differentiating the long-term safety profile of Celebrex from NSAIDs."

"Positive Results of Celebrex CLASS Trial Released," by Jami Rubin, *et al.*, Morgan Stanley Dean Witter, analyst report, 18 April 2000, p. 2.

"PHA and PFE plan to submit these data to the FDA in hopes of revising (or best case, removing) the standard NSAID warning about GI events that currently appears in the label. A revision of the label is likely to have a positive impact on reimbursement and sales of Celebrex." *Ibid.*

"[W]e continue to believe that Celebrex will show impressive growth during the coming quarters, fuelled by new research data."
"Ready for a Pick-Up Later This Year!," by Peter Sellei and Kristofer Liljeberg-Svensson, Carnegie, analyst report, 25 April 2000, p. 3.

"We believe that Celebrex offers potential upside to PHA's stock price. ... PHA will expand upon the recently announced GI safety data with a more complete presentation at the Digestive Disease Week Conference May 21-24. This data is expected to show much lower incidence of GI complications than traditional NSAID's, and an FDA filing this quarter could remove the NSAID warning label as soon as late 2000. This occurrence would open the door for more widespread usage at managed care facilities."

"Celebrex Poised to Bounce; AG Weakness Less Important," ABN AMRO, analyst report, by Maria Corso and Scott Henry, 25 April 2000, p. 2.

"Several significant Celebrex-related catalysts are slated for 2000. The 'next big thing' in the Celebrex story should take place around mid-year,

when PHA and PFE are expected to submit a supplemental NDA (sNDA) with the results of their outcomes trial (the CLASS trial). ... The objective in submitting these trials to the FDA is to convince the agency to revise the label on Celebrex, which currently includes the standard NSAID warning. Removal, or even significant revision, of this warning would likely have a major positive impact on reimbursement practices and sales of the product."

"Ag Off to a Slow Start, but 2000 EPS in Tact," by Jami Rubin, *et al.*, Morgan Stanley Dean Witter, analyst report, 26 April 2000, p. 3.

"We believe the long-term safety data generated by the CLASS (Celebrex) and VIGOR (Merck's Vioxx) trials will re-accelerate the coxibs' penetration of the NSAID market by removing the NSAID side effects warning label. Pharmacia plans to file the CLASS data this quarter, with an FDA-approved label modification possible by late this year."

"Ag. Franchise in a Q1 Drought: Pharma Will Pick Up the Slack," by Ian Sanderson, et al., SG Cowen, analyst report, 26 April 2000, p. 2.

"The two COX-2 drugs (including MRK's Vioxx) should capture a significant share of the anti-arthritic market, reflecting the increasing awareness that these agents cause far fewer GI problems than the older NSAIDs. Should the FDA accept the results of recently completed safety studies that PHA and MRK have conducted on their respective products, the warning labels of Celebrex and Vioxx could be softened somewhat. In our opinion, the odds of such a development in 2H'00 are about 50/50. Such a labeling change would obviously have a favorable effect on the sales of both products, and could make our Celebrex domestic revenue forecast somewhat conservative."

"2Q Pharma Sales To Show Accelerated Growth," by Kent Blair, et al., Donaldson, Lufkin & Jenrette, analyst report, 12 June 2000, p. 3.

"A key going forward will be to see how the FDA views the new safety and whether or not it is rewarded with a meaningful label change." "Prospects for Growth," by Jeffrey Chaffkin, et al., PaineWebber, analyst report, 6 July 2000, p. 4.

"We believe that Celebrex will continue to show impressive growth during the coming quarters, fuelled by new research data and its launch in major European markets."

"Impressive Top-Line Growth!," by Peter Sellei and Kristofer Liljeberg-Svensson, Carnegie, analyst report, 25 July 2000, p. 1.

"There remains huge market expansion potential for Celebrex and Merck's Vioxx, as 60% of arthritis pain patients still are on traditional NSAIDs. We believe the long-term safety data generated by the CLASS (Celebrex) and VIGOR (Merck's Vioxx) trials may accelerate the coxibs'

penetration of the NSAID market by removing the NSAID adverse events warning label."

"H2 Earnings Growth Acceleration on Tap Post a Convincing Q2," by Ian Sanderson, et al., SG Cowen, analyst report, 26 July 2000, p. 2.

"Sometime in '01, the FDA is expected to relax the side effect warnings on Celebrex and Vioxx. Those moves should further enhance the COX-2s' share of the overall anti-arthritic market."

"Strong Volume Gains and Synergies To Fuel Rapid EPS Growth," by Kent Blair, et al., Donaldson, Lufkin & Jenrette, analyst report, 23 August 2000, p. 1.

"Our Q3(00) forecasts indicate impressive growth for Celebrex, fuelled by numerous research data indicating that COX-2 inhibitors are superior to the older class of drugs, the so-called NSAID's, and that the COX-2 inhibitors might be prescribed for new indications."

"9M(00) Previews," by Peter Sellei and Kristofer Liljeberg-Svensson, Carnegie, analyst report, 26 October 2000, p. 1.

"While this marketing and positioning battle will continue to rage, we believe the longer-term opportunity for the COX-2 class will be the potential removal of gastrointestinal warning labels that appear on both Celebrex and Vioxx labeling, a consideration that would lead to another significant growth leg to the class."

"Uniquely Positioned Pharmaceutical Growth Platforms," by Kenneth Kulju, et al., Credit Suisse First Boston, analyst report, 5 December 2000, p. 8.

"These labeling revisions will also be important in driving prescription conversion with larger managed care accounts."

"4Q Preview," by Kenneth Kulju, et al., Credit Suisse First Boston, analyst report, 5 January 2001, p. 1.

"We believe the label improvements resulting from the long-term safety data generated by the CLASS (Celebrex) and VIGOR (Vioxx) studies, should support growth beginning in H2:2001."

"Pharmacia Corporation," Steve Scala, et al., SG Cowen, analyst report, 11 January 2001, p. 2.

The Financial Press Reported on the Importance of CLASS

239. As is evident in the following excerpts from the financial media published during the Class Period, the CLASS trial was considered to be highly important to Celebrex:

"No previous study has examined such a broad range of (gastrointestinal - GI) side effects - which encompass events ranging from serious and often devastating GI ulcers and ulcer complications, to silent but medically

important damage to the lining of the intestine, to symptoms like abdominal pain,' said Lee Simon, a professor at Harvard Medical School. 'I'm incredibly excited about this data set,' he added. 'These drugs are just basically safer.'"

"Update 1-Long-Term Data Show New Arthritis Drug Safer," by Kathy Fieweger, *Reuters News*, 17 April 2000.

"Two new rival arthritis drugs that have already become blockbusters, Merck & Co.'s Vioxx and Pharmacia Corp.'s Celebrex, aim to propel sales into higher orbit by convincing U.S. regulators in coming months that their medicines are far safer than standard treatments. A key step in that campaign comes this week, when the firms will unveil data from separate clinical trials they say prove their medicines are overwhelmingly safer than older ulcer-causing arthritis remedies known as nonsteroidal anti-inflammatory drugs (NSAIDs)."

"Vioxx, Celebrex Aim To Profit from Improved Safety Labels," by Ransdell Pierson, *Reuters News*, 22 May 2000.

"The problem arises from the labeling for both Vioxx and Celebrex. The label alludes to the need for these long-term safety studies about gastrointestinal effects because only those side effects occurring with NSAIDs are known. 'If the GI (gastrointestinal) warning section on the label were removed, it would greatly help these drugs in further penetrating the NSAID market,' said Ryan Beck Southeast Research analyst Neil Sweig."

"Safety Data May Not Affect Who Leads Arthritis Market," by Beth M. Mantz, *Dow Jones Newswires*, 24 May 2000.

The Court Concluded that the CLASS Results and Related Statements Were Material

240. In its Memorandum Opinion dated 22 January 2007, the Court concluded that the CLASS results and the 17 April 2000 press release about the CLASS results were material information.

"Given the weight attached to CLASS results by Defendants and various stock analysts, and the fact that CLASS was widely reported in the financial and mainstream media, the Court finds the statements cited by Plaintiffs, including Defendants' April 17 press release ... to be material." Alaska Electrical Pension Fund v. Pharmacia Corp., No. 03-01519 (AET), 2007 U.S. Dist. Lexis 5410, at *7-*8 (D.N.J. January 22, 2007).

241. Not only did the Court find the initial release of the incomplete CLASS results to be a material event, but the Court concluded that the FDA's data release and the Advisory

Committee's decision not to recommend a label change, on 6-7 February 2001, constituted a "curative disclosure" event that caused the Pharmacia stock price to decline:

"The Court finds that the FDA's data release and the advisory committee ruling ('FDA Release') constituted a curative disclosure as they were substantial, widely-reported, and contradicted the Defendants' conclusions about the results of CLASS. ... Further, it is uncontested that this regulatory action caused a precipitous drop in Pharmacia's common stock price, which is evidence of its curative effect."

Pharmacia, 2007 U.S. Dist. Lexis 5410, at *13.

- 242. As such, the Court determined that the disclosed information was material and its prior concealment had caused the stock price to be inflated.
- 243. Furthermore, the Court of Appeals for the Third Circuit concurred that alleged misrepresentations were material and caused the Pharmacia stock price to be inflated, and that the corrective disclosure in February 2001 caused the stock price to decline:

"And, of course, the materiality of the alleged misrepresentations is self-evident when we look at the market's negative reaction – to the tune of a nine-percent drop in stock price in three days – when defendants' analysis of the CLASS study was questioned in February 2001."

Pharmacia, 554 F.3d at 352.

244. The Court's findings are consistent with statements made by Defendants during the Class Period, and by analysts and the financial press. The facts of this case indicate that the alleged misrepresentations and omissions artificially inflated the price of Pharmacia stock. The disclosure event of February 2001 was a curative disclosure that caused the artificial inflation to dissipate, resulting in investor losses. Therefore, the alleged misrepresentations and omissions caused investor losses.

EMPIRICAL CONFIRMATION OF LOSS CAUSATION

245. The significant decline in the Pharmacia Pharmaceutical Stock Price (and in the unadjusted Pharmacia stock price) on 6-8 February 2001, in reaction to the corrective disclosures, empirically confirms the materiality of the misrepresentations and omissions. This empirical result, coupled with an analysis of potentially confounding information, proves

that the misrepresentations and omissions had artificially inflated the price of Pharmacia stock during the Class Period and that, when corrected, they caused investors to suffer losses.

Events of 6-8 February 2001

The Corrective Disclosure

- 246. As described above, prior to the 7 February 2001 FDA's Arthritis Advisory Committee meeting, on or about 6 February 2001, reports written by FDA reviewers that contained and analyzed CLASS data from the entire study were posted on the FDA's website. The new information provided to the market was voluminous and complex scientific, medical, and statistical information, but corrected Defendants' prior false or misleading statements about the CLASS study.
- 247. Late in the afternoon on 7 February 2001, the Advisory Committee stated that the full CLASS trial results indicated no significant GI safety advantage of Celebrex over traditional NSAIDs. As a result, the Committee did not recommend that the FDA approve a label change with respect to GI safety.
- 248. Reportage and commentary about the disclosure by medical professionals, the financial press, and analysts were extensive continuing after the close of trading on 7 February 2001 and carrying over to 8 February 2001.
- 249. For example, in a report titled "CLASS Flunks Out," published on February 8th, CIBC analysts wrote that Pharmacia's stock price declined on 7 February 2001 on concerns that Celebrex's growth would stagnate without the label change and noted the potential for additional share price weakness on 8 February 2001. After the close of trading on February 7th, Salomon Smith Barney analysts issued a report stating that the CLASS results would slow the growth of COX-2 inhibitors. So
- 250. The information about the CLASS study that was provided by the FDA reviewers and subsequently disseminated by news and analyst coverage was precisely the information that Defendants had been concealing throughout the Class Period. The market now knew the

⁵⁵ "CLASS Flunks Out," by Mara Goldstein, Steven Gerber, M.D. and Adam Sohn, CIBC, analyst report, 8 February 2001.

⁵⁶ "PHA: FDA Reviews Celebrex & Vioxx Safety Data," by Mark Striker and George Grofik, Salomon Smith Barney, analyst report, 7 February 2001.

facts described above in paragraph 45. Consequently, the events of 6-8 February 2001 clearly constituted a corrective disclosure.

The Corrective Disclosure Dissipated Artificial Inflation

- 251. Over the three-day period, 6-8 February 2001, the residual decline in the Pharmacia Pharmaceutical Stock Price was a statistically significant \$5.92 per share, or 11.81% on a logarithmic return basis. This residual return controls for the market effect, the pharmaceutical sector effect, and any information related to the New Monsanto business. Moreover, the residual decline was too great to be attributable to random volatility. Therefore, the loss in value must have been caused by Company-specific information related to the pharmaceuticals business.
- 252. The three-day decline in the unadjusted Pharmacia stock price (*i.e.*, without removing New Monsanto) is statistically significant as well, proving that the result is robust to event study design.
- 253. The single-day residual Pharmacia Pharmaceutical Stock Price declines were also individually statistically significant on February 7th and 8th. The decline was 4.17% on February 7th and 6.91% on February 8th, equivalent to declines of \$2.14 per share and \$3.39 per share, respectively.
- 254. These single-day declines are also statistically significant in the event study conducted on the unadjusted Pharmacia stock price, proving that the results are robust to event study design.
- 255. That the single-day and cumulative residual returns were statistically significant indicates that the Company-specific news that emerged at this time caused the price decline.

Accounting for Potentially Confounding Information

- 256. To determine whether any information other than the CLASS disclosure contributed to the 6-8 February residual stock price decline, I examined all other Company-related news that emerged over those days and assessed the valuation effect, if any, of that potentially confounding information.
- 257. Four additional pieces of Company-specific information transpired on 6-8 February 2001:

- On 6 February 2001, Pharmacia announced that its drug Xalatan had become the top-selling treatment for open-angle glaucoma in Japan and that it had launched Zyvox in the U.K. Pharmacia also submitted an application for Somavert (a treatment for acromegaly).⁵⁷
- ii. Also on 6 February 2001, Nycomed Amersham plc announced that it would proceed with an IPO of its life sciences unit, APBiotech.⁵⁸ Pharmacia owned 45% of APBiotech.⁵⁹
- iii. After the close of trading on 6 February 2001, news emerged that Pharmacia had initiated a lawsuit against Alcon Laboratories for patent infringement regarding the manufacturing of Xalatan.⁶⁰
- iv. After the close of trading that same day, the FDA posted a warning issued to Pharmacia about downplaying the risks of using Celebrex in conjunction with Coumadin (an anticoagulant). The FDA letter noted that this was the fourth letter dealing with Coumadin in Pharmacia's promotional materials for Celebrex.⁶¹
- 258. I analyzed each of these news items to determine whether or not they constituted new valuation-relevant information that may have contributed to Pharmacia's stock price decline beginning on 6 February 2001.

Xalatan Sales and Somavert Application Announcements

- 259. Pharmacia's announcement about Xalatan at the Merrill Lynch Global Pharmaceutical, Medical Device, and Biotechnology Conference did not include any quantitative information about the current level or projected growth of Xalatan sales. Therefore, it was unlikely that investors could have gleaned sufficient information from the announcement to change their assessment of Pharmacia's value.
- 260. Moreover, to the extent that the announcement did provide valuation-relevant information, it would have had a positive influence on Pharmacia's stock returns. This effect would have slightly reduced the overall stock price decline, offsetting the decline caused by the release

⁵⁷ "Pharmacia's Xalatan Becomes the Number-One Selling Glaucoma Treatment in Japan," Company press release, *PR Newswire*, 6 February 2001.

⁵⁸ "Nycomed Pushes Ahead With Life Science IPO," *Reuters News*, 6 February 2001.

⁵⁹ Pharmacia Corporation Form 10-K for the Year Ended December 31, 2000, filed 25 March 2001, p. 8.

⁶⁰ "Pharmacia Sues Alcon over Patent for Glaucoma Drug," *Reuters News*, 6 February 2001.

⁶¹ "Pharmacia Again Warned about Celebrex Promotion," by Lisa Richwine, *Reuters News*, 6 February 2001.

- of the CLASS data. The news about the Somavert application submission was similarly positive.
- 261. Factoring in the countervailing positive price impact of this news, if any, would indicate that the valuation impact of the CLASS disclosure was even more negative than the net effect observed. I conservatively elected to assume there was no such offsetting price impact from the positive Xalatan and Somavert news.

APBiotech IPO

- 262. The news of Nycomed Amersham's plan to proceed with an IPO of APBiotech informed the market that Pharmacia's previously unmarketable asset, *i.e.* its 45% stake in the company, would become marketable. Since marketability enhances the value of an asset, this development, too, was positive.
- 263. Moreover, Pharmacia's 2000 Form 10-K mentioned APBiotech only once, indicating that it was not a major component of Pharmacia's business.
- 264. To the extent that the APBiotech announcement did provide any valuation-relevant information, it would likely have had a positive influence on Pharmacia's returns, thus slightly offsetting the decline caused by the CLASS data release. Accounting for the countervailing positive price impact of this development, if any, would indicate that the valuation impact of the CLASS disclosure was even more negative than the net effect observed. I conservatively elected to assume that the APBiotech IPO news caused no such offsetting price impact.

Alcon Laboratories Patent Lawsuit

- 265. News of Pharmacia's Xalatan patent infringement suit against Alcon Laboratories can be viewed as either a positive or negative. The suit could potentially have signaled that Pharmacia was concerned about the potential impact on Xalatan's sales of the competing drug, Travatan. Alternatively, if the market was already accounting for the potential impact of Travatan's launch, the lawsuit could be viewed as a positive, as the suit could either result in monetary compensation or a delay in Travatan's launch, both of which would benefit Pharmacia.
- 266. I searched analyst reports and news articles for commentary about the lawsuit. Other than one *Reuters* article, there was no additional news coverage or analyst commentary. I

therefore determined that the news of the lawsuit was considered too minor to have a meaningful impact on the valuation of Pharmacia's stock.

FDA Warning Letter about Celebrex and Coumadin Combination

- 267. After the close of trading on 6 February 2001, the FDA posted on its website a fourth warning to Pharmacia for downplaying the risks associated with concurrent use of Celebrex and Coumadin, an anticoagulant known generically as warfarin. Specifically, the FDA's warning cited five audio conferences given by Dr. McMillen, on behalf of the Company, in March and May of 2000.
- 268. Two of the FDA's previous three warnings, issued in October 1999 and April 2000, involved promotional materials distributed by the Company. The third warning concerned a television ad and was issued in November of 2000.⁶³
- 269. Potential complications arising from the interaction of Celebrex and Coumadin was not new information. In fact, the FDA had previously required the Company to add this information to the "Precautions" section of the Celebrex label as a result of reported bleeding events in patients taking Celebrex and warfarin concurrently. The "Precautions" section included the following:

"(a)nticoagulant activity should be monitored, particularly in the first few days, after initiating or changing CELEBREX therapy in patients receiving warfarin or similar agents, since these patients are at an increased risk of bleeding complications ... in post-marketing experience, bleeding events have been reported, predominately in the elderly, in association with increases in prothrombin time in patients receiving CELEBREX concurrently with warfarin."

"RE: NDA 20-998, Celebrex (celecoxib) capsules; 'Warning Letter,'" dated 1 February 2001, Food and Drug Administration, posted 6 February 2001.

270. Additionally, among the analyst reports I was able to review from the Class Period, not one discussed either the February 2001 warning letter or any of the three previous warning letters. Consequently, I conclude that the warning letter issuance had *de minimis*, if any, valuation impact, and that it caused none of the stock price decline on 6-8 February 2001.

⁶² "Pharmacia Again Warned About Celebrex Promotion," by Lisa Richwine, *Reuters News*, 6 February 2001.
⁶³ Ibid

Conclusion About Confounding Information

271. Carefully considering information that emerged between 6 February and 8 February 2001 indicates that no potentially confounding information significantly contributed to the Pharmacia stock price decline that occurred during that timeframe. I considered whether news over this timeframe about Pfizer and about Merck's COX-2 inhibitor Vioxx was confounding information. I determined that it was not. The decline in the Pharmacia stock price was caused by the corrective disclosure of information about the CLASS study.

DAMAGE COMPUTATION

The Inflation Ribbon

- 272. An inflation ribbon is a time series indicating how much artificial inflation caused by the alleged fraud was in the stock price on each day of the Class Period.
- 273. On account of the close mirroring of the information concealed at the start of the Class Period and then disclosed on 6-8 February 2001, the event study results in this case constitute essentially a controlled experiment. The value of Pharmacia Pharmaceutical Stock with the information concealed is observed just prior to 6 February 2001, while the value of the Pharmacia Pharmaceutical Stock with the information disclosed is observed just after the three-day adjustment ending on 8 February 2001. The residual change in the Pharmacia Pharmaceutical Stock Price over this period therefore measures the value of the information at issue.
- 274. The cumulative residual decline in the Pharmacia Pharmaceutical Stock Price over the three days, 6-8 February 2001, amounted to \$5.92 per share. Prior to 6 February 2001, therefore, the price of Pharmacia's stock was artificially inflated by \$5.92 per share.
- 275. The inflation ribbon is constructed by working chronologically backwards from the end of the three-day disclosure event window, in this case 8 February 2001, and adding fraudrelated residual price declines as they occurred. No artificial inflation remained in the stock price as of 8 February 2001, a day when the residual decline in the Pharmacia Pharmaceutical Stock Price was \$3.39 per share. This means that a day earlier, as of 7 February 2001, the artificial inflation in the Pharmacia stock price was \$3.39 per share.

- 276. On February 7th, the residual stock price decline was \$2.14 per share. Therefore, as of February 6th, the artificial inflation amounted to \$5.53 per share, equal to the \$2.14 that dissipated on February 7th plus the \$3.39 per share that remained afterwards.
- 277. On February 6th, the residual decline in the Pharmacia Pharmaceutical Stock Price was \$0.39 per share. Therefore, a day earlier, on February 5th, the artificial inflation in the Pharmacia stock price amounted to \$5.92 per share, the \$0.39 that dissipated on February 6th, plus the \$5.53 per share that remained afterwards.
- 278. Prior to 6 February 2001, there were no corrective disclosures that observably dissipated artificial inflation during the Class Period. Consequently, the artificial inflation in the Pharmacia stock price was unchanged since the start of the Class Period.
- 279. The Court of Appeals for the Third Circuit held:

"Plaintiffs' own expert acknowledges that the announcement of the results of the CLASS study 'had little measurable effect on [Pharmacia's] stock price.' But that fact does not negate a finding of materiality when the market was expecting that the results of the study would be positive, and plaintiffs have presented evidence indicating precisely that. (citing Morgan Stanley report written the day after the CLASS study results were released that states, 'we are making no change to our forecasts, as we had anticipated the study to corroborate the strong safety profile of the product'). And, of course, the materiality of the alleged misrepresentations is self-evident when we look at the market's negative reaction – to the tune of a nine-percent drop in stock price in three days – when defendants' analysis of the CLASS study was questioned in February 2001."

Pharmacia, 554 F.3d 342, *352 (internal citations omitted).

280. Exhibit-13 presents the inflation ribbon.

Per Share Damage Formula

- 281. The measure of damages generally applied in 10b-5 cases is the reduction in the dollar inflation over an investor's holding period (the economic/inflation loss).
- 282. For shares sold after the final corrective disclosure, the Private Securities Ligation Reform Act of 1995 ("PSLRA 1995") limits the damages subject to an investment loss cap based on the price paid for the stock and the market prices prevailing subsequent to the disclosure:

"[T]he award of damages to the plaintiff shall not exceed the difference between the purchase or sale price paid or received, as appropriate, by the plaintiff for the subject security and the mean trading price of that security during the 90-day period beginning on the date on which the information correcting the misstatement or omission that is the basis for the action is disseminated to the market."

15 U.S.C. § 78u-4(e) (2).

- 283. To provide a conservative measure of damages, I applied an investment loss cap to shares sold during the Class Period and not just to shares sold afterwards. For any particular holding period, damages are the lesser of the decline in the inflation ribbon and the decline in the share price.
- 284. According to PSLRA 1995, the investment loss cap for shares sold during the 90-day period following the final corrective disclosure ("the bounce-back period") are a function of the average of the closing prices from the date of disclosure to the date of sale:
 - "... if the plaintiff sells or repurchases the subject security prior to the expiration of the 90-day period described in paragraph (1), the plaintiff's damages shall not exceed the difference between the purchase or sale price paid or received, as appropriate, by the plaintiff for the security and the mean trading price of the security during the period beginning immediately after dissemination of information correcting the misstatement or omission and ending on the date on which the plaintiff sells or repurchases the security."

 15 U.S.C. § 78u-4(e) (2).
- 285. Thus, damage on any share purchased during the Class Period and sold within 90 days of the final corrective disclosure is the lesser of the reduction in the dollar inflation over the investor's holding period (the economic/inflation loss) or the decline in the stock price (the investment loss), where the terminal stock price is deemed to be the average price from the final corrective disclosure date to the sale date.
- 286. Damage on any share purchased during the Class Period and held 90 days or more beyond the final corrective disclosure equals the lesser of the reduction in the dollar inflation over the investor's holding period (the economic/inflation loss) or the decline in the stock price (the investment loss), where the terminal stock price is deemed to be the average price over the 90 days following the final corrective disclosure.

- 287. Even though according to the news analysis and event study analysis all artificial inflation dissipated with the 6-8 February 2001 corrective disclosure, the final corrective informational disclosure took place on 5 August 2001 with the publication of the *Washington Post* exposé. The Court of Appeals for the Third Circuit considered this event to be the final disclosure of the fraud and the end of the Class Period.⁶⁴ Under this scenario, the 90-day bounce-back period stretches from 5 August 2001 through 2 November 2001. The average price for Pharmacia stock over this 90-day period, based on closing prices, was \$41.25 per share.
- 288. As an example of how per share damages are computed for a particular investor, consider an investor who purchased Pharmacia stock on 2 January 2001 for \$60.00 per share and sold those shares at the close of trading on 8 February 2001 for \$53.00 per share. The inflation on 2 January 2001 was \$5.92 per share, and at the close on 8 February 2001 it was zero. According to the inflation ribbon, this investor's economic/inflation loss is \$5.92 per share, equal to the decline in inflation over his holding period (\$5.92 \$0.00). The investment loss is \$7.00 per share, equal to the \$60.00 purchase price minus the \$53.00 per share sale price. The per share damages are the lesser of the economic/inflation loss and the investment loss, which is \$5.92 per share.
- 289. Based on the foregoing analysis and statutory formulas, Rule 10b-5 damages per share range from \$0 to \$5.92 per share, excluding prejudgment interest. A particular investor's damages depend on when during the Class Period each share was purchased and if and when each respective share was subsequently sold. Investors who purchased after 8 February 2001, or sold their shares prior to 6 February 2001, suffered no damages on those shares.

AGGREGATE DAMAGES

290. Counsel for the Plaintiffs asked me to provide an estimate of the aggregate damages suffered by all investors who bought Pharmacia stock during the Class Period. To estimate aggregate damages, it is necessary to estimate how many Pharmacia shares were bought on each day of the Class Period and to estimate if and when those same shares were

⁶⁴ *Pharmacia*, 554 F.3d 342.

- subsequently sold. This information is relevant, because the damage on each particular share depends on when it was bought and when it was sold.
- 291. The two-trader proportional trading model estimates the requisite purchase and sale dates for all shares traded during the Class Period, and is commonly used to provide estimates of aggregate damages in securities cases.

Two-Trader Proportional Trading Model

- 292. The two-trader proportional trading model recognizes that most trading volume is attributable to a relatively small subset of traders, while the remaining investors tend to have longer holding periods. Accordingly, market participants are divided into two groups "traders," who trade frequently, and "holders," who trade less frequently.
- 293. The model employs parameter estimates for the percentages of outstanding shares held by each of the two groups, and the greater frequency of "trader" trades relative to "holder" trades.
- 294. The model then uses reported trading volume to estimate when share purchases were subsequently sold. Essentially, the model estimates the probability of any particular share being traded on a particular day. Next, it applies this probability to estimate the number of shares purchased on each prior day that are re-traded on each respective subsequent day. The model's construction and operation are further detailed below.

Published Literature, Wide Use, and Acceptance by Courts

295. A proportional trading model such as the two-trader proportional trading model I used is a "representative agent" model, which is a generally accepted model in finance and economics research. There are a multitude of seminal articles based on representative agent models. The groundbreaking article by Nobel Prize winner Robert E. Lucas, "Asset Prices in an Exchange Economy," published in the leading journal *Econometrica* [November 1978], 65 is but one such example that demonstrates the profession's acceptance of such models.

^{65 &}quot;Asset Prices in an Exchange Economy" by Robert E. Lucas, Jr., Econometrica, November 1978.

- 296. The basic one-trader and two-trader proportional trading models are presented in the *Litigation Services Handbook*, 3rd edition.⁶⁶
- 297. In my experience I have observed that the two-trader proportional trading model and its variants are widely used both by plaintiff and defense experts for calculating aggregate damages in the course of litigation, in settlement discussions, and for drafting plans of allocation subsequent to settlement.
- 298. Published studies, such as Cone and Laurence [1994]⁶⁷ and Furbush and Smith [1994]⁶⁸, have examined the model's use in securities litigation and have shown that two-trader models are more conservative and more accurate in estimating damages than are single trader proportional trading models.
- 299. Finnerty and Pushner [2003]⁶⁹ and Barclay and Torchio [2001]⁷⁰ are two more examples of published research on the model and its variants.
- 300. Bassin [2000]⁷¹ and Beaver, Malernee, and Keeley [1993]⁷² empirically tested two-trader models. Bassin and Beaver, *et al.*, used actual trading records to calibrate the parameters of two-trader models. I utilized the modeling and parameter estimates presented in the Beaver, *et al.* model, which I have observed to be widely used both by plaintiff and defense experts to estimate aggregate damages.
- 301. In the following cases, courts have reviewed and accepted proportional trading models for estimating aggregate damages: *In re Oxford Health Plans, Inc.*, 244 F. Supp. 2d 247, 249-52 (S.D.N.Y. 2003); *Robbins v. Deloitte & Touche, LLP*, No. 90-896- -Civ-J-10, 1995 U.S. Dist. LEXIS 22424, at *1 (M.D. Fla. June 28, 1995), *rev'd on other grounds*, 116 F.3d

⁶⁶ "Securities Act Violations: Estimation of Damages," by Nicholas I. Crew, Patrick G. Goshtigian, Marnie A. Moore, and Atulya Sarin, chapter 17 in *Litigation Services Handbook*, 3rd edition, edited by Roman L. Weil, Michael J. Wagner, and Peter B. Frank, John Wiley & Sons Inc., 2001.

⁶⁷ "How Accurate Are Estimates of Aggregate Damages in Securities Fraud Cases?," by Kenneth R. Cone and James E. Laurence, *Business Law*, 1994.

⁶⁸ "Estimating the Number of Damaged Shares in Securities Fraud Litigation: An Introduction to Stock Trading Models," by Dean Furbush and Jeffrey W. Smith, *Business Law*, 1994.

⁶⁹ "An Improved Two-Trader Model for Measuring Damages in Securities Fraud Class Actions," by John Finnerty and George Pushner, *Stanford Journal of Law, Business and Finance*, 2003.

⁷⁰ "A Comparison of Trading Models Used for Calculating Aggregate Damages in Securities Litigation", by Michael Barclay and Frank C. Torchio, *Law & Contemporary Problems*, 2001.

⁷¹ "A Two Trader Population Share Retention Model for Estimating Damages in Shareholder Class Action Litigations," by William M. Bassin, *Stanford Journal of Business and Finance*, 2000.

⁷² Stock Trading Behavior and Damage Estimation in Securities Cases, by William H. Beaver, James K. Malernee, and Michael C. Keeley, Cornerstone Research, 1993.

1441 (11th Cir. 1997); *In re Worldcom, Inc.*, No. 02 civ. 3288 (DLC), 2005 U.S. Dist. LEXIS 3143 at *5-*15 (S.D.N.Y. March 4,2005).

Construction of the Two-Trader Model

- 302. I constructed a 389 row by 328 column matrix whose entries show the estimates of how many shares purchased on each of the 328 trading days in the Class Period were sold on each of the 388 trading days up through 2 November 2001, which is the last trading day of the 90-calendar-day period commencing 5 August 2001.
- 303. The 389th row of the matrix shows how many shares purchased within the Class Period were still held beyond the end of the 90-day period.
- 304. Based on the parameters in the Beaver, *et al.* study, I assumed that 15.3% of outstanding shares were held by "traders" and the remaining 84.7% were held by "holders." Also based on their study, I assumed that a trader's share is 29 times more likely to be traded than is a holder's share. As noted above, the Beaver, *et al.* study arrived at these estimates by analyzing actual trade data.
- 305. Pharmacia was traded on the New York Stock Exchange. Since specialists at the NYSE trade in order to maintain an orderly market rather than for investment purposes, trading volume was adjusted to remove the effect of the exchange specialists' trades. Specialist participation data were provided by the NYSE and is presented in Exhibit-14. The proper adjustment is to remove the specialist participation rate times the daily volume.⁷³ This adjustment removed 13.2% to 15.9% of daily trading volume, depending on the particular month.
- 306. Share float for the Company was calculated by adding short interest to total shares outstanding and reducing this amount by insider holdings and by the shares that the institutional holdings data indicated were owned by institutions and not traded during the Class Period. Short interest data are presented in Exhibit-15 and institutional holdings are presented in Exhibit-16. Insider holdings were obtained from Pharmacia's annual proxy statements filed with the SEC.⁷⁴

⁷⁴ According to Proxy Statements filed 22 May 2000 and 16 March 2001, insiders held 4,609,723 and 2,202,778 shares as of 4 May 2000 and 5 March 2001, respectively. For the first 12 days of the Class Period, I used the

⁷³ The data provided by the NYSE quote the specialist participation rate as the percentage of volume attributed to specialists rather than the percentage of trades in which specialists participated as buyers or sellers.

⁷⁴ A coordinate Provided to Provi

- 307. To make the institutional holdings adjustment to float, I examined each institutions reported holdings on each quarterly reporting date from 31 March 2000 through 31 December 2001. I assumed that, for each institution, the respective minimum level of shares held across those reporting dates was the amount each institution owned prior to the Class Period and continued to hold throughout the Class Period and the subsequent 90 days. I then summed these held shares across institutions to arrive at an aggregate estimate of shares owned by institutions prior to the Class Period and not traded during the Class Period and subsequent 90 days. This is the same methodology described by Barclay and Torchio [2001], among others. The number of shares arrived at through this approach amounted to 407.3 million shares, which I removed from the public float quantity.
- 308. Reducing the float to account for institutional holdings in this manner is a conservative methodological approach *i.e.* one that lowers estimated damages for it reduces the number of shares that could have been damaged and increases the estimate of turnover among the remaining shares. That is, this float reduction attributes reported volume to a smaller number of shares being traded, thereby limiting the number of unique shares that were purchased during the Class Period and hence damaged.
- 309. This method for excluding shares held by institutions is a conservative approach also because it is possible that some institutions may have sold and then repurchased shares between the quarterly reporting dates. Having been bought at artificially inflated prices, such repurchased shares would have been damaged, and yet my approach excludes them. Furthermore, the removal of held shares from float is conservative in that the trading frequency parameters estimated by Beaver, *et al.*, which I likewise applied, were derived empirically from data that did not remove such float held by institutions.
- 310. The share float for Pharmacia was divided into shares owned by "traders" and shares owned by "holders" using the Beaver, *et al.* model parameters. For example, on 17 April 2000, total float was 856,581,033 shares. Of this amount 15.3%, equal to 131,056,898 shares, belonged to "traders" and the remaining 84.7%, or 725,524,135 shares, belonged to "holders." As shares outstanding changed, the number of shares owned by each group was adjusted using these same percentages.

^{4,609,723} shares reportedly held as of 4 May 2000 as the approximate number of shares held by insiders after the merger.

- 311. On each trading day, the probability of any particular trader's share being traded (or retraded) is estimated as the ratio of traders' volume divided by the number of traders' shares. The probability of any particular holder's share being traded (or re-traded) is estimated as the ratio of holders' volume divided by the number of holders' shares.
- 312. Using these estimated probabilities for each day in the Class Period, the model indicates when shares that were previously purchased were later sold.
- 313. Using the two-trader proportional trading model, I constructed a 389 by 328 element matrix whose entries show how many traders' shares purchased on each day were sold on each of the subsequent days. Another 389 by 328 element matrix shows how many holders' shares purchased on each day were sold on each subsequent day. A third matrix, the "buy/sell" matrix, sums the two.
- 314. To arrive at the estimate of total damages, I multiplied each element of the buy/sell matrix by the Rule 10b-5 per share damage corresponding to the respective buy and sell dates.

 Total damage to investors in the Plaintiff Class is found by summing the damages for all of the buy/sell dates. Estimated using this model, total damages suffered by Class members amounted to \$1.59 billion. This damage figure is exclusive of prejudgment interest.

Analysis of the Two-Trader Model

- 315. Analysis of the two-trader model with alternative parameters indicates that the model parameters I applied provide one of the most conservative estimates of aggregate damages among estimates derived with alternative parameter value choices.
- 316. Recall that the parameter values I applied are those presented by Beaver, *et al.* [1993]. Barclay and Torchio [2001] analyzed these parameters and found them to generate nearly the lowest aggregate damage estimates from among the range of potential parameter values.
- 317. My own analysis of the model as it pertains to the present case confirms the Barclay and Torchio conclusion: the two-trader proportional trading model with the Beaver, *et al.* parameters produces a conservative estimate of aggregate damages. For my analysis, I varied the parameter representing the proportion of shares held by traders versus holders to assess how such variation changed the aggregate damage estimate.
- 318. Using a 10% value for the proportion of all shares owned by "traders" rather than "holders," for example, aggregate damages are estimated to be \$1.62 billion. This figure is

higher than the \$1.59 billion I estimated using the Beaver, *et al.* parameter value of 15.3%. With a 20% value, aggregate damages are estimated to be \$1.64 billion, also higher than the \$1.59 billion estimated using the 15.3% parameter value. The table below shows estimated aggregate damages for a range of parameter value choices.

Percent Held by Traders	Aggregate Damages (\$ Millions)
0%	3,035.9
3%	2,177.0
5%	1,902.4
10%	1,622.7
15%	1,584.7
15.3%	1,586.1
20%	1,639.4
30%	1,843.4
40%	2,071.8
50%	2,285.9
60%	2,477.1
70%	2,645.2
80%	2,792.5
90%	2,921.8
100%	3,035.9

319. Note that from among the possible values for the model parameter value, the 15.3% input value I used gives an estimate of aggregate damages that is among the lowest. The use of the 15.3% parameter value therefore produces a conservative estimate of aggregate damages. As shown below, other analysis further confirms that the aggregate damages estimate is conservative.

Aggregate Damages Assuming the 90-Day Bounce-Back Period Begins on 8 February 2001

320. As discussed above, I estimated damages for all purchasers of Pharmacia stock through the final corrective disclosure on 5 August 2001 and began the 90-day bounce-back period on that date. The model with this specification estimated aggregate damages to be \$1.59 billion. However, the final corrective disclosure on 5 August 2001 was not the date of the final dissipation of inflation, which occurred on 8 February 2001. Because it may be

- determined that the 90-day bounce-back period should commence with the final dissipation of inflation rather than the final corrective disclosure, I performed an alternate estimation of aggregate damages with the 90-day bounce-back period starting on 8 February 2001.
- 321. The 90-day period beginning 8 February 2001 ends 8 May 2001. The average price for Pharmacia stock over this 90-day period, based on closing prices, was \$50.11 per share.
- 322. For this alternative aggregate damage estimation, I utilized the same methodology and model parameters as were used in the original calculation.
- 323. With the 90-day bounce-back period beginning 8 February 2001, total damages suffered by Class members are estimated to be \$1.38 billion, exclusive of prejudgment interest.

Aggregate Damages Estimated from the Institutional Holdings Data

- 324. An alternative estimate of aggregate damages can be derived from the holdings data that institutions report quarterly to the SEC.
- 325. The reporting dates for these data correspond to the end of each calendar quarter.

 Therefore, to observe institutional holdings during the time spanning the Class Period and subsequent 90 days, I examined institutional holdings data reported for the quarters ending 31 March 2000 through 31 December 2001. These data are presented in Exhibit-16.
- 326. I observed whether holdings of Pharmacia stock increased or decreased for each respective institution in each quarter. If holdings increased, I assumed the increase equaled the number of shares purchased during the quarter. If holdings decreased, I assumed the decline equaled the number of shares sold during the quarter. If a particular institution's holdings remained the same, I assumed that institution neither bought nor sold shares during the quarter. This is a conservative method for estimating the number of shares traded by institutions, as it equates purchases with net purchases and sales with net sales. In fact, there may have been offsetting purchases and sales within a quarter that would not be captured by the end-of-quarter snapshots.
- 327. Next, for each institution, I assumed that transactions occurred on a daily basis throughout each respective quarter in proportion to the ratio of each day's market trading volume relative to the total quarterly market trading volume. That is, if on a particular day 5% of the quarter's total trading volume occurred, I assumed that 5% of each institution's trading during the quarter occurred on that day.

- 328. I then constructed a buy/sell matrix for each institution, similar to the buy/sell matrix described above for the proportional trading model. Initially, I used FIFO (first in, first out) accounting to match sales with buys, but repeated the exercise using LIFO (last in, first out). Under FIFO, the assumption is that when an institution sells shares, those shares sold are the shares that were the first purchased, meaning they would be the oldest shares held at the time of the sale. Under LIFO, the assumption is that the shares an institution sells are those shares that were the most recently purchased. Consequently, for each institution I constructed two alternative buy/sell matrices indicating when shares were purchased and if/when those shares were subsequently sold one matrix based on FIFO and the other on LIFO.
- 329. Summing the buy/sell matrices for all institutions produces an aggregate institutional buy/sell matrix that indicates when all institutions as a group bought shares, and if/when those particular shares were later sold.
- 330. I assigned the appropriate per share damage amount to each purchased share depending on its purchase and sale dates as identified by the aggregate institutional buy/sell matrix.

 Summing across all purchased shares and all institutions provides a measure of damages suffered by all institutions.
- 331. Based on this methodology, using FIFO accounting, and assuming the 90-day bounce-back period starts 5 August 2001, I estimated that institutions suffered damages of \$2.25 billion. Using LIFO accounting, institutional damages were \$1.85 billion.
- 332. Assuming the 90-day bounce-back period begins 8 February 2001, using FIFO accounting, the institutional damage model indicates aggregate institutional damages of \$1.76 billion. Using LIFO accounting, damages amount to \$1.48 billion.
- 333. Both the FIFO and LIFO institutional damage figures for the later bounce-back period scenario substantially exceed the \$1.59 billion aggregate damage figure estimated by the two-trader proportional trading model, even though this model includes only damages suffered by institutions who must report their holdings to the SEC. Smaller institutions and individual investors are excluded from the holdings data, and are therefore excluded from this damage estimate. Similarly, both the FIFO and LIFO institutional damage figures for the earlier bounce-back period scenario exceed the two-trader proportional trading model's estimate of \$1.38 billion. Based on the greater magnitude of the damage estimates indicated

by the institutional damage model – despite that model's investor exclusions – I conclude that the estimates provided by the two-trader proportional trading model are extraordinarily conservative.

LIMITING FACTORS

334. This report is furnished solely for the purpose of court proceedings in the above named matter and may not be used or referred to for any other purpose. The analysis and opinions contained in this report are based on information available as of the date of this report. I reserve the right to supplement or amend this report, including in the event additional information becomes available.

Steven P. Feinstein, Ph.D., CFA

APPENDIX: LOGARITHMIC RETURNS

Logarithmic returns, rather than percent change returns, are commonly used in stock return regressions and event study analysis. The formula for a logarithmic return is:

$$R_{t} = \ln \left(\frac{P_{t} + d_{t}}{P_{t-1}} \right)$$

where:

 R_t is the logarithmic return on day t; P_t is the stock price at the end of day t; P_{t-1} is the stock price from the previous day, day t-1; and d_t is the dividend on day t, if any.

The formula for converting a logarithmic return into a dollar return is:

$$DR_t = P_{t-1} \cdot (e^{R_t} - 1)$$

where:

 DR_t is the dollar return on day t; P_{t-1} is the stock price from the previous day, day t-1; e is natural e (approximately 2.7); and R_t is the logarithmic return on day t.

If a stock falls from \$20 to \$18, the percent change in price is -10%, equal to the \$2 decline divided by the original \$20 price. The logarithmic return, however, is -10.54%, equal to ln(\$18/\$20).

The logarithmic return relates a price change to an average of the original, final, and intervening prices over the course of a price decline. As such, for large price declines, it is possible for a logarithmic price decline to exceed 100%, since the decline may be greater than the average of the beginning and ending prices.

An attractive feature of a logarithmic return is that it can be decomposed into contributing factors linearly. That is, the portion of a logarithmic return caused by company-specific information is isolated by subtracting from the total logarithmic return the portion of the total return caused by market and sector factors.

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- CIBC, "Pharmacia," 24 July 2002.
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- Monsanto Company Form 10-Q for the Fiscal Quarter Ended 30 June 1999, filed 16 August 1999.
- Monsanto Company Form 10-Q for the Fiscal Quarter Ended 30 September 1999, filed 15 November 1999.

- Monsanto Company Form 10-KA for the Fiscal Year Ended 31 December 1998, filed 21 January 2000.
- Monsanto Company Form 10-QA for the Fiscal Quarter Ended 31 March 1999, filed 21 January 2000.
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- Pharmacia Corporation Form DEF 14A, filed 22 May 2000.
- Pharmacia Corporation Form 10-Q for the Fiscal Quarter Ended 30 June 2000, filed 14 August 2000.
- Pharmacia Corporation Form S-3, filed 20 September 2000.
- Pharmacia Corporation Form S-3A, filed 2 November 2000.
- Pharmacia Corporation Form 10-Q for the Fiscal Quarter Ended 30 September 2000, filed 14 November 2000.
- Monsanto Company Form 10-Q for the Fiscal Quarter Ended 30 September 2000, filed 30 November 2000.
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- Dow Jones
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COMPANY DOCUMENTS

- "Executive Summary: Celebra Life Cycle Plan 1998-1999 Budget," 21 June 1998, Exhibit-126, [DEFS 01380795 DEFS 01380805].
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- "Pharmacia Corporation 4Q 2000 Conference Call, 12 February 2001," Exhibit-401, [DEFS-01221420 DEFS-01221436].
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OTHER

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- "FDA Arthritis Advisory Committee Hearing Transcript; re: NDA 21-042/S007, Vioxx (Rofecoxib, Merck)," dated 8 February 2001.
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- "RE: NDA 20-998, Celebrex (celecoxib) capsules; 'Warning Letter,'" dated 1 February 2001, Food and Drug Administration, posted 6 February 2001.
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Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 121 of 550 PageID: 7755

Exhibit-1

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Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 122 of 550 PageID: 7756

Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

Babson College Finance Division Babson Park, MA 02457 781-239-5275 Feinstein@Babson.edu

EDUCATION

1989 YALE UNIVERSITY
Ph.D. in Economics (Concentration in Finance)

1986 YALE UNIVERSITY M.Phil. in Economics

1983 YALE UNIVERSITY M.A. in Economics

1981 POMONA COLLEGE
B.A. in Economics (Phi Beta Kappa, *cum laude*)

TEACHING EXPERIENCE

1996 - present BABSON COLLEGE

Babson Park, MA

Full-time Faculty, Finance Division Associate Professor (2000-present)

Donald P. Babson Chair in Applied Investments (2002-2010) Faculty Director of the Babson College Fund (2002-2009) Director of the Stephen D. Cutler Investment Management

Center (2002-2007)

Assistant Professor (1996-2000)

1990 - 1995 BOSTON UNIVERSITY SCHOOL OF MANAGEMENT

Boston, MA

Full-time Faculty, Department of Finance

1993 - 1994 WASHINGTON UNIVERSITY, OLIN SCHOOL OF BUSINESS

St. Louis, MO

Visiting Assistant Professor, Department of Finance

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 123 of 550 PageID: 7757

Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

BUSINESS EXPERIENCE

2008 - present CROWNINSHIELD FINANCIAL RESEARCH, INC.

Wellesley, MA

President and Senior Expert

1996 - 2008 THE MICHEL-SHAKED GROUP

Boston, MA

Senior Expert (2001 - 2008) Affiliated Expert (1996 - 2001)

1987 - 1990 FEDERAL RESERVE BANK OF ATLANTA

Economist

PROFESSIONAL DESIGNATIONS

1998 Awarded the Chartered Financial Analyst designation by the Association for Investment Management and Research.

RESEARCH AWARDS

1999 Greater Boston Real Estate Board/Real Estate Finance Association – Research Grant and Featured Speaker at Real Estate Finance Association Meetings.

PAPERS AND PUBLICATIONS

"Distortion in Corporate Valuation: Implications of Capital Structure Changes" (with Allen Michel and Jacob Oded) *Managerial Finance* (forthcoming).

"Market Signals of Investment Unsuitability" (with Alexander Liss and Steven Achatz) Law360.com, June 3, 2010. Available from http://www.law360.com/articles/170690.

"Planning Capital Expenditure," in The Portable MBA in Financing and Accounting, J. L. Livingstone and T. Grossman, editors, New York: Wiley, 3rd edition 2001, and 4th edition 2009.

"Financial Management of Risks," in *The Portable MBA in Financing and Accounting*, J. L. Livingstone and T. Grossman, editors, New York: Wiley, 2nd edition 1997, 3rd edition 2001, and 4th edition 2009.

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 124 of 550 PageID: 7758

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Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

"Fraud-on-the-market Theory: Is a Market Efficient?" (with Allen Michel and Israel Shaked) *American Bankruptcy Institute Journal*, May 2005.

"Valuation of Credit Guarantees" (with Allen J. Michel and Israel Shaked). *Journal of Forensic Economics* 17(1), pp. 17-37, 2005.

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Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

"International Investing," in *Irwin's Directory of Emerging Market Brokerages*. New York: Irwin, 1996.

"The Hull and White Implied Volatility." Boston University Working Paper #92-51, 1992.

"Immunizing Against Interest Rate Risk Using the Macaulay Duration Statistic: An Assessment," (with Don Smith) in *Financial Systems and Risk Management*, the proceedings of the US-Japan Forum on Financial Strategy in the 1990s, sponsored by Osaka Foundation of International Exchange and Boston University, August 1991.

"Covered Call Options: A Proposal to Ease LDC Debt," (with Peter Abken) *Federal Reserve Bank of Atlanta Economic Review*, March/April 1990. Reprinted in *Financial Derivatives: New Instruments and Their Uses*. Atlanta: Federal Reserve Bank.

"Forecasting Stock-Market Volatility Using Options on Index Futures," *Federal Reserve Bank of Atlanta Economic Review*, May/June 1989. Reprinted in *Financial Derivatives: New Instruments and Their Uses*. Atlanta: Federal Reserve Bank.

"The Black-Scholes Formula is Nearly Linear in Sigma for At-the-Money Options; Therefore Implied Volatilities from At-the-Money Options are Virtually Unbiased." Federal Reserve Bank of Atlanta Working Paper #88-9, December 1988.

"The Effect of the 'Triple Witching Hour' on Stock Market Volatility," (with William Goetzmann) *Federal Reserve Bank of Atlanta Economic Review*, September/October 1988. Reprinted in *Financial Derivatives: New Instruments and Their Uses*. Atlanta: Federal Reserve Bank.

"Stock Market Volatility," Federal Reserve Bank of Atlanta Economic Review, November/December 1987.

Book review of *In Who's Interest: International Banking and American Foreign Policy*, by Benjamin J. Cohen, Yale University Press, in *Federal Reserve Bank Of Atlanta Economic Review*, Summer 1987.

PRESENTATIONS

"Determining the Defendant's Ability to Pay," at Taxpayers Against Fraud Education Fund Conference, October 2010.

"The Computation of Damages in Securities Fraud Cases," at the Grant and Eisenhofer Institutional Investor Conference, December 2002.

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 126 of 550 PageID: 7760

Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

- "The Role of the Financial Expert in Complex Litigation," at the Financial Management Association Conference, October 2000.
- "Entrepreneurial Incentives and Resource Allocation Among Corporate Venturing Initiatives," (with Joel Shulman and U. Srinivasa Rangan), Babson Entrepreneurship Research Conference, May 2000.
- "Application of Real Options in Purchasing Strategies," (with Juan Orozco), presented at the International Applied Business Research Conference, March 2000.
- "A Future for Real Estate Futures," (with Linda Stoller) at the Fairfield County chapter of the Real Estate Finance Association, November 1999, and at the Greater Boston Real Estate Board, November 2000.
- "Atlanta Park Medical Center v. Hamlin Asset Management," (with Natalie Taylor) at the 1999 convention of the North American Case Research Association.
- "Using Future WorldsTM in the Financial Planning Process," (with Jeffrey Ellis) at the Institute of Certified Financial Planners Masters Retreat, October 1999.
- "Toward a Better Understanding of Real Options: A Weighted Average Discount Rate Approach," at the 1999 Financial Management Association Conference, the 1999 European Financial Management Association Conference, and the 1999 Multinational Finance Society Conference.
- "Just-In-Time Mathematics: Integrating the Teaching of Finance Theory and Mathematics," (with Gordon Prichett) at the 1999 Financial Management Association Conference.
- "Alternative Dow Investments for the Individual Investor: Diamonds, Synthetics, and the Real Thing," at the 1999 Academy of Financial Services Convention.
- "Evidence of Yield Burning in Municipal Refundings" at Financial Management Association Convention, October 1997; Government Finance Officers Association, 1997; and Northeast Regional Convention of the National Association of State Treasurers, 1997.
- "Teaching the Strong-Form Efficient Market Hypothesis" at Conference on Classroom Experiments in the Teaching of Economics at University of Virginia, September 1995.
- "Efficient Consolidation of Implied Standard Deviations," (with Shaikh Hamid) at Midwest Finance Association, March 1995.

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

"A Test of Intertemporal Averaging of Implied Volatilities," (with Shaikh Hamid) at Eastern Finance Association, April 1995.

"Taking Advantage of Volatility: Non-linear Forecasting and Options Strategies," (with Hassan Ahmed) at Chicago Board of Trade / Chicago Board Options Exchange Conference on Risk Management, February 1992.

"Immunizing Against Interest Rate Risk Using the Macaulay Duration Statistic: An Assessment," (with Don Smith) at Japan-U.S. Conference on Financial Strategies in the 1990s, Osaka, Japan, August 1991.

"The Hull and White Implied Volatility," at American Finance Association Convention, December 1990.

REVIEWED ARTICLES AND BOOKS FOR:

Harvard Business School Publishing

Elsevier

Journal of Economic Education

Journal of Forensic Economics

Journal of Risk

Financial Review

North American Case Research Association

Financial Management

Journal of Business

Journal of Money, Credit and Banking

Quarterly Review of Economics and Finance

Blackwell

Prentice Hall

Southwestern Publishing

COURSES TAUGHT

Capital Markets

Mod B: Decision Making and Applications, Finance stream (MBA)

Financial Reporting and Corporate Finance (MBA)

Valuation (MBA)

Investments (MBA and Executive)

Equity Markets (MBA)

Fixed Income Analysis (Undergraduate and MBA)

Babson College Fund (Undergraduate and MBA)

Options and Futures (Undergraduate)

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 128 of 550 PageID: 7762

Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

Advanced Derivative Securities (MBA)

Corporate Finance (MBA and Executive)

Financial Management (MBA)

Risk Management (MBA)

Corporate Financial Strategy (MBA)

Integrated Management (Undergraduate)

Cross-Functional Management (Integrated curriculum, Undergraduate)

Continuous-Time Finance (Doctoral)

Portfolio Theory / Management Information Systems (Executive)

Quantitative Methods for Investment Management (Undergraduate and MBA)

Introduction to Derivatives Securities (Executive)

International Finance (Executive)

TEACHING AWARDS

Reid Teaching Award, Washington University, Olin School of Business, 1993-94.

SELECT LIST OF MEDIA CITATIONS

"Bankers Rigging Municipal Contract Bids Admit to Cover-Up Lies," by William Selway and Martin Z. Braun, *Bloomberg Markets Magazine*, November 24, 2010.

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"Downer: Stock Market Takes Another Dive," by John Chesto, *Boston Herald*, July 23, 2002.

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Exhibit-2

Curriculum Vitae Steven P. Feinstein, Ph.D., CFA

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"L.A. Authority Study Shows Rampant Yield Burning Abuse," by Michael Stanton, *The Bond Buyer*, April 22, 1997.

"Dispute Over Yield Burning Dominates GFOA Session," by Michael Stanton, *The Bond Buyer*, January 29, 1997.

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"Municipal Bond Dealers Face Scrutiny," by Peter Truell, *The New York Times*, December 17, 1996.

"Iowa Market Takes Stock of Presidential Candidates," by Stanley W. Angrist, *The Wall Street Journal*, August 28, 1995.

"Looking for Clues in Options Prices," by Sylvia Nasar, *The New York Times*, July 18, 1991.

"For Fed, A New Set of Tea Leaves," by Sylvia Nasar, *The New York Times*, July 5, 1991.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Finance Association

Boston Security Analysts Society

Chartered Financial Analyst Institute

Financial Management Association

Foundation for Advancement of Research in Financial Economics (founding member)

North American Case Research Association

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 130 of 550 PageID: 7764

Exhibit-3

Steven P. Feinstein, Ph.D., CFA Testimony in the Last 4 Years

In Re Veeco Instruments, Inc. Securities Litigation United States District Court Southern District of New York Case No.: 7:05-md-1695 (CM) Deposition Testimony June 2007

Ellington Overseas Partners. LTD. and Ellington Long Term Fund. LTD. vs. HSBC Securities (USA) Inc.
United States District Court
Southern District of New York
06-CV-02353
July 2007

Carpenters Health & Welfare Fund, *et al.* vs. The Coca-Cola Company United States District Court
Northern District of Georgia
Atlanta Division
File No. 1:00-CV-2838-WBH
Deposition Testimony
August 2007

In Re Schering-Plough Corporation Securities Litigation United States District Court For The District of New Jersey Master File No. 01-CV-0829 (KSH/MF) Deposition Testimony September 2007

In Re ProQuest Company Securities Litigation United States District Court Eastern District Of Michigan Master File No. 2:06-cv-10619 Deposition Testimony May 2008

Marvin Overby, *et al.* vs. Tyco International, Ltd., *et al.* United States District Court
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Case No. 02-CV-1357-B
Deposition Testimony
May 2008

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 131 of 550 PageID: 7765

Exhibit-3

Steven P. Feinstein, Ph.D., CFA Testimony in the Last 4 Years

Franz Schleicher, et al. vs. Gary C. Wendt, et al. (Conseco, Inc.)
United States District Court
Southern District of Indiana
Indianapolis Division
No. 02 CV 1332 DFH-TAB
Deposition Testimony
July 2008

In Re The Mills Corporation Securities Litigation United States District Court For The Eastern District of Virginia Alexandria Division Civil Action No. 1:06-cv-00077 (LO/TJR) Deposition Testimony September 2008

In Re Cooper Companies, Inc. Securities Litigation United States District Court Central District of California, Southern Division No. SACV-06-00169-CJC(RNBx) Deposition Testimony October 2008 and December 2009

Debra Hall, *et al.* vs. The Children's Place Retail Stores, Inc., *et al.* United States District Court
Southern District of New York
Civil Action No. 1:07-cv-08252-SAS
Deposition Testimony
December 2008

Robert Ross, *et al.* vs. Abercrombie & Fitch Company, *et al.* United States District Court Southern District of Ohio Eastern Division
No. 2:05-cv-00819-EAS-TPK
Deposition Testimony
February 2009

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 132 of 550 PageID: 7766

Exhibit-3

Steven P. Feinstein, Ph.D., CFA Testimony in the Last 4 Years

In Re Comcast Corporation ERISA Litigation United States District Court Eastern District of Pennsylvania Master File No. 2:08-cv-00773-HB Deposition Testimony July 2009

John Richard Beach, et al. vs. Healthways Inc., et al. United States District Court Middle District of Tennessee Nashville Division Civil Action No. 3:08-cv-00569 Deposition Testimony July 2009

Jan Buettgen, *et al.* vs. Katherine J. Harless, *et al.* United States District Court
Northern District of Texas
Dallas Division
Civil Action No. 3:09-cv-00791-K
Deposition Testimony
December 2010

Vasili Tsereteli, et ano., vs. Residential Asset Securitization Trust 2006-A8, et al. Civil Action No. 1:08-cv-10637-LAK
In Re IndyMac Mortgage-Backed Securities Litigation
Civil Action No. 1:09-cv-04583-LAK
United States District Court
Southern District of New York
Deposition Testimony
January 2011

In Re Merck & Co., Inc. Securities, Derivative & "ERISA" Litigation United States District Court District of New Jersey Civil Action No. 05-2369(SRC) Deposition Testimony May 2011

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 133 of 550 PageID: 7767

Exhibit-3

Steven P. Feinstein, Ph.D., CFA Testimony in the Last 4 Years

The Board of Trustees of the Southern California IBEW-NECA Defined Contribution Plan, vs. The Bank of New York Mellon Corporation and BNY Mellon, National Association. United States District Court Southern District of New York Civil Action No. 1:09-cv-06273-RMB-AJP Deposition Testimony March 2011 and May 2011

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
4/14/2000	\$53.13	-		4,713,599
4/17/2000	\$54.13	-	1.86%	5,782,199
4/18/2000	\$53.06	-	-1.98%	4,932,099
4/19/2000	\$59.75	-	11.87%	9,619,099
4/20/2000	\$58.25	-	-2.54%	7,218,000
4/24/2000	\$58.06	-	-0.32%	5,731,599
4/25/2000	\$54.00	-	-7.25%	7,264,899
4/26/2000	\$52.75	-	-2.34%	8,837,599
4/27/2000	\$52.50	-	-0.48%	3,947,599
4/28/2000	\$49.94	-	-5.00%	7,654,101
5/1/2000	\$49.63	-	-0.63%	7,083,799
5/2/2000	\$50.00	-	0.75%	5,329,099
5/3/2000	\$51.00	-	1.98%	4,598,199
5/4/2000	\$52.25	-	2.42%	5,897,799
5/5/2000	\$54.00	-	3.29%	4,814,399
5/8/2000	\$55.56	-	2.85%	4,452,500
5/9/2000	\$55.56	-	0.00%	5,655,399
5/10/2000	\$54.13	-	-2.62%	5,801,199
5/11/2000	\$54.38	-	0.46%	3,496,399
5/12/2000	\$53.50	-	-1.62%	2,908,299
5/15/2000	\$55.19	-	3.11%	3,332,899
5/16/2000	\$53.75	-	-2.64%	2,754,099
5/17/2000	\$52.94	-	-1.52%	3,043,000
5/18/2000	\$52.50	-	-0.83%	3,359,399
5/19/2000	\$54.94	-	4.54%	3,669,000
5/22/2000	\$53.19	-	-3.24%	3,192,199
5/23/2000	\$53.50	-	0.59%	4,210,000
5/24/2000	\$51.81	-	-3.21%	4,142,500
5/25/2000	\$52.13	-	0.60%	3,535,699
5/26/2000	\$51.75	-	-0.72%	2,479,699
5/30/2000	\$50.50	-	-2.45%	2,267,000
5/31/2000	\$51.94	-	2.81%	2,329,199
6/1/2000	\$51.81	-	-0.24%	3,032,099
6/2/2000	\$49.31	-	-4.95%	4,790,899
6/5/2000	\$50.00	-	1.38%	3,188,299
6/6/2000	\$48.94	-	-2.15%	3,843,299

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
6/7/2000	\$50.50	-	3.14%	3,185,899
6/8/2000	\$50.13	-	-0.75%	1,660,699
6/9/2000	\$52.06	-	3.79%	2,561,699
6/12/2000	\$52.13	-	0.12%	2,616,799
6/13/2000	\$53.13	-	1.90%	3,531,199
6/14/2000	\$54.75	-	3.01%	3,313,399
6/15/2000	\$55.75	-	1.81%	3,407,799
6/16/2000	\$56.06	-	0.56%	4,275,699
6/19/2000	\$56.50	-	0.78%	3,241,699
6/20/2000	\$56.56	-	0.11%	3,541,599
6/21/2000	\$55.44	-	-2.01%	3,573,199
6/22/2000	\$51.75	-	-6.88%	5,667,199
6/23/2000	\$53.06	-	2.50%	3,784,299
6/26/2000	\$53.38	-	0.59%	3,396,599
6/27/2000	\$53.56	-	0.35%	3,731,899
6/28/2000	\$51.81	-	-3.32%	3,028,099
6/29/2000	\$50.50	-	-2.57%	7,798,500
6/30/2000	\$51.69	\$0.12	2.56%	8,765,898
7/3/2000	\$52.88	-	2.27%	1,583,699
7/5/2000	\$53.50	-	1.18%	3,074,899
7/6/2000	\$54.13	-	1.16%	2,130,399
7/7/2000	\$54.81	-	1.26%	5,106,599
7/10/2000	\$56.06	-	2.25%	4,132,099
7/11/2000	\$57.31	-	2.21%	4,020,899
7/12/2000	\$56.69	-	-1.10%	3,299,799
7/13/2000	\$55.56	-	-2.00%	4,241,599
7/14/2000	\$55.75	-	0.34%	3,934,199
7/17/2000	\$55.75	-	0.00%	2,026,799
7/18/2000	\$55.00	-	-1.35%	2,037,199
7/19/2000	\$53.50	-	-2.77%	3,989,299
7/20/2000	\$52.56	-	-1.77%	4,741,699
7/21/2000	\$52.00	-	-1.08%	4,450,000
7/24/2000	\$52.50	-	0.96%	4,751,099
7/25/2000	\$55.63	-	5.78%	11,599,000
7/26/2000	\$55.88	-	0.45%	5,709,699
7/27/2000	\$55.88	-	0.00%	5,811,299

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
7/28/2000	\$55.81	-	-0.11%	5,220,699
7/31/2000	\$54.75	-	-1.92%	3,084,000
8/1/2000	\$55.75	-	1.81%	4,171,599
8/2/2000	\$57.56	-	3.20%	4,055,799
8/3/2000	\$57.00	-	-0.98%	7,304,099
8/4/2000	\$56.88	-	-0.22%	4,803,599
8/7/2000	\$57.63	-	1.31%	5,488,500
8/8/2000	\$58.81	-	2.04%	7,390,500
8/9/2000	\$57.56	-	-2.15%	5,188,899
8/10/2000	\$55.75	-	-3.20%	4,389,500
8/11/2000	\$56.19	-	0.78%	2,875,899
8/14/2000	\$56.13	-	-0.11%	1,571,299
8/15/2000	\$56.81	-	1.22%	2,588,199
8/16/2000	\$57.75	-	1.64%	3,075,299
8/17/2000	\$59.69	-	3.30%	4,408,299
8/18/2000	\$58.00	-	-2.87%	3,603,000
8/21/2000	\$57.88	-	-0.22%	2,489,899
8/22/2000	\$57.31	-	-0.98%	2,175,399
8/23/2000	\$57.50	-	0.33%	2,690,899
8/24/2000	\$58.56	-	1.83%	2,845,099
8/25/2000	\$59.00	-	0.74%	2,174,799
8/28/2000	\$58.13	-	-1.49%	2,199,799
8/29/2000	\$58.88	-	1.28%	3,132,599
8/30/2000	\$58.56	-	-0.53%	2,806,299
8/31/2000	\$58.56	-	0.00%	3,195,199
9/1/2000	\$58.38	-	-0.32%	2,648,899
9/5/2000	\$56.44	-	-3.38%	4,011,000
9/6/2000	\$55.94	-	-0.89%	3,528,599
9/7/2000	\$56.69	-	1.33%	3,376,399
9/8/2000	\$54.81	-	-3.36%	2,849,599
9/11/2000	\$54.44	-	-0.69%	2,878,399
9/12/2000	\$54.50	-	0.11%	3,009,699
9/13/2000	\$55.25	-	1.37%	4,533,199
9/14/2000	\$54.75	-	-0.91%	3,041,699
9/15/2000	\$54.00	-	-1.38%	6,498,500
9/18/2000	\$53.00	-	-1.87%	2,753,899

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
9/19/2000	\$53.94	-	1.75%	2,146,699
9/20/2000	\$54.31	-	0.69%	2,812,000
9/21/2000	\$56.00	-	3.06%	6,654,000
9/22/2000	\$58.94	-	5.11%	8,865,599
9/25/2000	\$58.94	-	0.00%	5,727,399
9/26/2000	\$58.00	-	-1.60%	5,462,799
9/27/2000	\$58.44	-	0.75%	5,316,099
9/28/2000	\$60.06	-	2.74%	9,734,399
9/29/2000	\$60.19	-	0.21%	5,099,000
10/2/2000	\$57.56	-	-4.46%	4,511,699
10/3/2000	\$57.69	\$0.12	0.42%	3,499,599
10/4/2000	\$57.06	-	-1.09%	3,007,000
10/5/2000	\$57.50	-	0.76%	4,217,199
10/6/2000	\$56.88	-	-1.09%	4,069,000
10/9/2000	\$56.31	-	-0.99%	2,791,500
10/10/2000	\$58.00	-	2.95%	7,317,899
10/11/2000	\$57.81	-	-0.32%	5,049,899
10/12/2000	\$57.50	-	-0.54%	7,451,599
10/13/2000	\$54.94	-	-4.56%	8,388,000
10/16/2000	\$55.19	-	0.45%	4,728,599
10/17/2000	\$56.44	-	2.24%	4,890,899
10/18/2000	\$55.00	-	-2.58%	4,933,599
10/19/2000	\$53.56	-	-2.65%	5,454,799
10/20/2000	\$50.75	-	-5.39%	8,127,500
10/23/2000	\$53.88	-	5.98%	6,452,599
10/24/2000	\$55.00	-	2.07%	4,979,799
10/25/2000	\$56.88	-	3.35%	5,221,599
10/26/2000	\$55.81	-	-1.89%	6,032,000
10/27/2000	\$54.63	-	-2.15%	4,177,099
10/30/2000	\$52.63	-	-3.73%	11,539,000
10/31/2000	\$55.00	-	4.41%	8,070,199
11/1/2000	\$57.44	-	4.34%	5,603,099
11/2/2000	\$58.00	-	0.97%	5,588,000
11/3/2000	\$56.25	-	-3.06%	4,446,500
11/6/2000	\$57.56	-	2.31%	3,430,799
11/7/2000	\$57.50	-	-0.11%	3,826,399

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
11/8/2000	\$59.44	-	3.31%	6,637,299
11/9/2000	\$59.25	-	-0.32%	4,484,799
11/10/2000	\$59.25	-	0.00%	3,749,399
11/13/2000	\$57.25	-	-3.43%	3,507,899
11/14/2000	\$58.75	-	2.59%	3,606,799
11/15/2000	\$58.25	-	-0.85%	2,386,799
11/16/2000	\$57.00	-	-2.17%	2,853,199
11/17/2000	\$59.81	-	4.82%	7,119,599
11/20/2000	\$59.50	-	-0.52%	2,864,699
11/21/2000	\$59.63	-	0.21%	2,743,599
11/22/2000	\$58.06	-	-2.66%	3,336,000
11/24/2000	\$57.69	-	-0.65%	889,900
11/27/2000	\$59.50	-	3.09%	3,540,699
11/28/2000	\$59.25	-	-0.42%	3,945,000
11/29/2000	\$60.94	-	2.81%	5,749,800
11/30/2000	\$61.00	-	0.10%	9,965,398
12/1/2000	\$57.50	-	-5.91%	7,264,700
12/4/2000	\$59.06	-	2.68%	4,419,100
12/5/2000	\$59.75	-	1.16%	3,993,000
12/6/2000	\$57.75	-	-3.40%	5,372,600
12/7/2000	\$58.00	-	0.43%	2,373,200
12/8/2000	\$59.00	-	1.71%	3,680,600
12/11/2000	\$58.69	-	-0.53%	2,979,100
12/12/2000	\$57.81	-	-1.50%	4,880,500
12/13/2000	\$58.56	-	1.29%	5,442,000
12/14/2000	\$59.31	-	1.27%	6,172,700
12/15/2000	\$59.63	-	0.53%	6,385,500
12/18/2000	\$59.38	-	-0.42%	2,876,400
12/19/2000	\$58.00	-	-2.34%	3,827,800
12/20/2000	\$59.94	-	3.29%	2,814,700
12/21/2000	\$58.06	-	-3.18%	6,079,400
12/22/2000	\$57.44	-	-1.08%	3,402,100
12/26/2000	\$58.63	-	2.05%	2,102,900
12/27/2000	\$60.00	-	2.32%	6,231,100
12/28/2000	\$60.94	-	1.55%	2,514,100
12/29/2000	\$61.00	-	0.10%	2,363,600

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
1/2/2001	\$60.00	-	-1.65%	4,105,100
1/3/2001	\$57.00	-	-5.13%	6,933,200
1/4/2001	\$55.31	\$0.12	-2.79%	11,038,100
1/5/2001	\$56.38	-	1.90%	5,976,800
1/8/2001	\$56.50	-	0.22%	4,151,600
1/9/2001	\$55.69	-	-1.45%	4,075,500
1/10/2001	\$55.50	-	-0.34%	4,415,200
1/11/2001	\$54.94	-	-1.02%	5,852,800
1/12/2001	\$55.50	-	1.02%	4,405,200
1/16/2001	\$56.31	-	1.45%	3,630,100
1/17/2001	\$55.88	-	-0.78%	3,061,100
1/18/2001	\$56.81	-	1.66%	3,596,500
1/19/2001	\$56.25	-	-1.00%	4,558,500
1/22/2001	\$56.19	-	-0.11%	3,709,800
1/23/2001	\$55.56	-	-1.12%	4,311,200
1/24/2001	\$55.38	-	-0.34%	4,685,400
1/25/2001	\$55.50	-	0.23%	6,199,700
1/26/2001	\$55.81	-	0.56%	3,374,100
1/29/2001	\$55.40	-	-0.74%	3,325,000
1/30/2001	\$55.18	-	-0.40%	3,597,100
1/31/2001	\$56.02	-	1.51%	3,670,100
2/1/2001	\$57.08	-	1.87%	3,962,200
2/2/2001	\$57.81	-	1.27%	3,231,600
2/5/2001	\$58.28	-	0.81%	3,308,400
2/6/2001	\$57.65	-	-1.09%	4,159,500
2/7/2001	\$56.13	-	-2.67%	5,008,600
2/8/2001	\$53.00	-	-5.74%	12,338,600
2/9/2001	\$54.00	-	1.87%	8,808,500
2/12/2001	\$54.23	-	0.43%	4,268,000
2/13/2001	\$51.63	-	-4.91%	10,655,100
2/14/2001	\$51.90	-	0.52%	7,716,600
2/15/2001	\$52.02	-	0.23%	5,844,100
2/16/2001	\$51.16	-	-1.67%	3,813,800
2/20/2001	\$49.95	-	-2.39%	5,150,600
2/21/2001	\$48.85	-	-2.23%	9,971,500
2/22/2001	\$49.25	-	0.82%	5,719,300

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
2/23/2001	\$49.05	-	-0.41%	5,176,600
2/26/2001	\$49.40	-	0.71%	5,414,500
2/27/2001	\$50.25	-	1.71%	7,799,800
2/28/2001	\$51.70	-	2.84%	5,935,900
3/1/2001	\$51.97	-	0.52%	6,849,300
3/2/2001	\$52.79	-	1.57%	3,626,700
3/5/2001	\$54.05	-	2.36%	4,273,500
3/6/2001	\$52.85	-	-2.25%	5,783,400
3/7/2001	\$51.01	-	-3.54%	3,820,300
3/8/2001	\$50.74	-	-0.53%	4,733,300
3/9/2001	\$51.19	-	0.88%	2,698,700
3/12/2001	\$50.22	-	-1.91%	3,619,900
3/13/2001	\$49.10	-	-2.26%	5,754,000
3/14/2001	\$47.80	-	-2.68%	5,247,500
3/15/2001	\$47.46	-	-0.71%	4,981,100
3/16/2001	\$45.18	-	-4.92%	7,619,200
3/19/2001	\$47.16	-	4.29%	5,121,400
3/20/2001	\$47.12	-	-0.08%	4,104,900
3/21/2001	\$46.58	-	-1.15%	4,898,200
3/22/2001	\$44.00	-	-5.70%	9,557,500
3/23/2001	\$46.99	-	6.57%	8,103,300
3/26/2001	\$48.28	-	2.71%	5,072,200
3/27/2001	\$49.60	-	2.70%	5,115,800
3/28/2001	\$49.80	-	0.40%	3,598,000
3/29/2001	\$49.87	-	0.14%	4,030,700
3/30/2001	\$50.37	-	1.00%	3,566,700
4/2/2001	\$49.25	-	-2.25%	3,026,000
4/3/2001	\$48.76	-	-1.00%	2,918,000
4/4/2001	\$49.23	-	0.96%	3,589,500
4/5/2001	\$51.04	-	3.61%	3,244,000
4/6/2001	\$50.65	\$0.12	-0.53%	3,769,000
4/9/2001	\$52.25	-	3.11%	3,376,300
4/10/2001	\$51.20	-	-2.03%	3,937,400
4/11/2001	\$50.11	-	-2.15%	4,380,200
4/12/2001	\$50.70	-	1.17%	3,141,400
4/16/2001	\$50.45	-	-0.49%	2,848,300

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
4/17/2001	\$52.08	-	3.18%	3,791,700
4/18/2001	\$50.75	-	-2.59%	5,343,200
4/19/2001	\$49.70	-	-2.09%	7,118,000
4/20/2001	\$48.55	-	-2.34%	7,475,300
4/23/2001	\$48.50	-	-0.10%	3,386,700
4/24/2001	\$48.01	-	-1.02%	3,410,400
4/25/2001	\$49.10	-	2.24%	4,814,600
4/26/2001	\$51.51	-	4.79%	4,426,700
4/27/2001	\$52.25	-	1.43%	2,984,600
4/30/2001	\$52.26	-	0.02%	3,965,500
5/1/2001	\$51.72	-	-1.04%	4,293,200
5/2/2001	\$51.00	-	-1.40%	3,609,900
5/3/2001	\$50.00	-	-1.98%	3,218,800
5/4/2001	\$50.00	-	0.00%	5,909,100
5/7/2001	\$48.95	-	-2.12%	4,486,100
5/8/2001	\$48.20	-	-1.54%	4,003,700
5/9/2001	\$47.49	-	-1.48%	7,355,300
5/10/2001	\$46.98	-	-1.08%	6,307,000
5/11/2001	\$46.15	-	-1.78%	5,216,500
5/14/2001	\$46.28	-	0.28%	5,616,800
5/15/2001	\$45.99	-	-0.63%	6,999,900
5/16/2001	\$48.38	-	5.07%	5,860,000
5/17/2001	\$49.49	-	2.27%	6,453,000
5/18/2001	\$49.60	-	0.22%	4,609,500
5/21/2001	\$50.02	-	0.84%	4,937,700
5/22/2001	\$49.50	-	-1.05%	4,866,700
5/23/2001	\$48.74	-	-1.55%	5,012,900
5/24/2001	\$48.69	-	-0.10%	4,140,700
5/25/2001	\$48.56	-	-0.27%	2,923,100
5/29/2001	\$48.01	-	-1.14%	5,039,200
5/30/2001	\$48.25	-	0.50%	3,489,900
5/31/2001	\$48.56	-	0.64%	3,689,800
6/1/2001	\$49.35	-	1.61%	3,187,800
6/4/2001	\$49.66	-	0.63%	1,390,700
6/5/2001	\$49.60	-	-0.12%	2,973,600
6/6/2001	\$49.35	-	-0.51%	2,981,800

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
6/7/2001	\$49.81	-	0.93%	2,215,200
6/8/2001	\$49.70	-	-0.22%	1,902,900
6/11/2001	\$49.06	-	-1.30%	3,249,600
6/12/2001	\$48.97	-	-0.18%	2,681,100
6/13/2001	\$48.75	-	-0.45%	2,321,000
6/14/2001	\$48.15	-	-1.24%	2,933,200
6/15/2001	\$48.80	-	1.34%	5,873,000
6/18/2001	\$49.19	-	0.80%	2,145,100
6/19/2001	\$49.51	-	0.65%	2,424,300
6/20/2001	\$50.75	-	2.47%	5,422,200
6/21/2001	\$51.50	-	1.47%	5,958,600
6/22/2001	\$48.79	-	-5.41%	8,505,200
6/25/2001	\$48.85	-	0.12%	5,650,700
6/26/2001	\$48.43	-	-0.86%	4,608,100
6/27/2001	\$47.22	-	-2.53%	4,714,000
6/28/2001	\$47.12	-	-0.21%	6,102,500
6/29/2001	\$45.95	-	-2.51%	6,675,900
7/2/2001	\$46.58	-	1.36%	4,884,500
7/3/2001	\$46.59	-	0.02%	1,798,700
7/5/2001	\$46.50	-	-0.19%	2,140,900
7/6/2001	\$46.00	-	-1.08%	2,736,800
7/9/2001	\$46.81	\$0.14	2.03%	3,451,300
7/10/2001	\$46.95	-	0.30%	3,696,500
7/11/2001	\$46.70	-	-0.53%	4,581,600
7/12/2001	\$46.22	-	-1.03%	3,947,400
7/13/2001	\$46.85	-	1.35%	3,385,400
7/16/2001	\$42.84	-	-8.95%	13,389,600
7/17/2001	\$42.60	-	-0.56%	8,441,000
7/18/2001	\$43.15	-	1.28%	8,254,300
7/19/2001	\$43.35	-	0.46%	6,450,200
7/20/2001	\$43.65	-	0.69%	3,305,400
7/23/2001	\$43.41	-	-0.55%	3,079,400
7/24/2001	\$42.00	-	-3.30%	5,424,100
7/25/2001	\$42.12	-	0.29%	5,279,100
7/26/2001	\$41.85	-	-0.64%	7,593,600
7/27/2001	\$42.12	-	0.64%	6,397,300

Exhibit-4
Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

Date	PHA Closing Price	PHA Dividend	PHA Logarithmic Return	PHA Volume
7/30/2001	\$43.28	-	2.72%	5,863,100
7/31/2001	\$44.62	-	3.05%	7,969,900
8/1/2001	\$44.55	-	-0.16%	4,041,000
8/2/2001	\$43.90	-	-1.47%	4,655,500
8/3/2001	\$44.00	-	0.23%	4,137,400
8/6/2001	\$44.00	-	0.00%	3,648,100
8/7/2001	\$45.10	-	2.47%	5,126,200
8/8/2001	\$44.32	-	-1.74%	3,071,800
8/9/2001	\$44.35	-	0.07%	3,727,600
8/10/2001	\$44.68	-	0.74%	2,782,500
8/13/2001	\$45.35	-	1.49%	2,690,600
8/14/2001	\$44.90	-	-1.00%	2,344,100
8/15/2001	\$44.87	-	-0.07%	2,625,700
8/16/2001	\$45.00	-	0.29%	2,813,600
8/17/2001	\$44.44	-	-1.25%	1,600,000
8/20/2001	\$44.25	-	-0.43%	2,631,400
8/21/2001	\$44.16	-	-0.20%	3,786,500
8/22/2001	\$43.20	-	-2.20%	7,656,400
8/23/2001	\$42.40	-	-1.87%	7,543,800
8/24/2001	\$41.81	-	-1.40%	8,482,100
8/27/2001	\$41.83	-	0.05%	4,196,700
8/28/2001	\$41.30	-	-1.28%	3,438,500
8/29/2001	\$40.51	-	-1.93%	3,176,200
8/30/2001	\$39.90	-	-1.52%	5,528,200
8/31/2001	\$39.60	-	-0.75%	4,955,000
9/4/2001	\$40.00	-	1.01%	5,743,900
9/5/2001	\$40.80	-	1.98%	5,735,600
9/6/2001	\$40.81	-	0.02%	6,356,600
9/7/2001	\$40.27	-	-1.33%	6,231,300
9/10/2001	\$40.15	-	-0.30%	6,080,100
9/17/2001	\$39.50	-	-1.63%	10,071,800
9/18/2001	\$39.60	-	0.25%	6,603,000
9/19/2001	\$40.00	-	1.01%	10,466,500
9/20/2001	\$38.91	-	-2.76%	7,281,500
9/21/2001	\$38.35	-	-1.45%	7,366,400
9/24/2001	\$37.60	-	-1.98%	5,716,800

Exhibit-4

Pharmacia Corp. (PHA) Stock Prices, Dividends, Volume, and Returns

14 April 2000 through 2 November 2001

	PHA Closing	PHA	PHA Logarithmic	
Date	Price	Dividend	Return	PHA Volume
9/25/2001	\$37.86	_	0.69%	8,235,400
9/26/2001	\$38.74	_	2.30%	5,562,600
9/27/2001	\$40.06	-	3.35%	5,128,700
9/28/2001	\$40.56	-	1.24%	5,020,200
10/1/2001	\$40.75	-	0.47%	3,580,300
10/2/2001	\$41.31	-	1.36%	3,445,800
10/3/2001	\$40.98	-	-0.80%	4,166,000
10/4/2001	\$40.05	-	-2.30%	3,524,100
10/5/2001	\$40.38	-	0.82%	3,847,600
10/8/2001	\$39.94	-	-1.10%	2,758,500
10/9/2001	\$40.00	\$0.14	0.49%	3,808,900
10/10/2001	\$40.41	-	1.02%	3,605,600
10/11/2001	\$41.02	-	1.50%	6,738,100
10/12/2001	\$41.03	-	0.02%	3,214,900
10/15/2001	\$41.00	_	-0.07%	4,211,000
10/16/2001	\$41.20	_	0.49%	4,598,100
10/17/2001	\$41.80	-	1.45%	6,338,400
10/18/2001	\$41.90	_	0.24%	4,196,300
10/19/2001	\$41.59	-	-0.74%	3,905,500
10/22/2001	\$42.76	_	2.77%	5,941,600
10/23/2001	\$38.39	-	-10.78%	22,797,900
10/24/2001	\$39.61	-	3.13%	15,942,700
10/25/2001	\$39.55	-	-0.15%	10,879,300
10/26/2001	\$39.34	-	-0.53%	9,652,300
10/29/2001	\$40.09	-	1.89%	8,786,400
10/30/2001	\$40.20	-	0.27%	7,081,800
10/31/2001	\$40.52	-	0.79%	7,177,900
11/1/2001	\$40.88	-	0.88%	5,173,400
11/2/2001	\$40.85	-	-0.07%	4,547,400

Source: CRSP

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
4/17/2000	\$53.88	\$54.38	0.92%	\$0.50
4/18/2000	NA	NA	NA	NA
4/19/2000	NA	NA	NA	NA
4/20/2000	NA	NA	NA	NA
4/24/2000	\$57.88	\$58.19	0.54%	\$0.31
4/25/2000	\$53.81	\$54.13	0.58%	\$0.31
4/26/2000	\$52.75	\$53.06	0.59%	\$0.31
4/27/2000	\$52.63	\$53.00	0.71%	\$0.38
4/28/2000	\$48.88	\$50.13	2.53%	\$1.25
5/1/2000	\$49.38	\$49.75	0.76%	\$0.38
5/2/2000	\$49.81	\$49.94	0.25%	\$0.13
5/3/2000	\$50.75	\$51.13	0.74%	\$0.38
5/4/2000	\$52.25	\$52.63	0.72%	\$0.38
5/5/2000	\$53.75	\$54.13	0.70%	\$0.38
5/8/2000	\$55.38	\$55.75	0.67%	\$0.38
5/9/2000	\$55.38	\$55.75	0.67%	\$0.38
5/10/2000	\$53.88	\$54.25	0.69%	\$0.38
5/11/2000	\$54.19	\$54.56	0.69%	\$0.38
5/12/2000	\$53.38	\$53.69	0.58%	\$0.31
5/15/2000	\$54.94	\$55.31	0.68%	\$0.38
5/16/2000	\$53.56	\$53.88	0.58%	\$0.31
5/17/2000	\$52.69	\$53.06	0.71%	\$0.38
5/18/2000	\$52.25	\$52.63	0.72%	\$0.38
5/19/2000	\$54.69	\$55.06	0.68%	\$0.38
5/22/2000	\$53.00	\$53.38	0.71%	\$0.38
5/23/2000	\$53.25	\$53.63	0.70%	\$0.38
5/24/2000	\$51.63	\$51.94	0.60%	\$0.31
5/25/2000	\$52.00	\$52.38	0.72%	\$0.38
5/26/2000	\$51.63	\$52.06	0.84%	\$0.44
5/30/2000	\$50.31	\$50.69	0.74%	\$0.38
5/31/2000	\$51.44	\$52.44	1.93%	\$1.00
6/1/2000	\$51.81	\$51.94	0.24%	\$0.13
6/2/2000	\$49.06	\$49.44	0.76%	\$0.38
6/5/2000	\$49.81	\$50.13	0.63%	\$0.31
6/6/2000	\$48.94	\$49.25	0.64%	\$0.31
6/7/2000	\$50.38	\$50.75	0.74%	\$0.38

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
6/8/2000	\$49.94	\$50.25	0.62%	\$0.31
6/9/2000	\$51.88	\$52.44	1.08%	\$0.56
6/12/2000	\$51.63	\$52.19	1.08%	\$0.56
6/13/2000	\$52.94	\$53.13	0.35%	\$0.19
6/14/2000	\$54.56	\$54.81	0.46%	\$0.25
6/15/2000	\$55.63	\$55.94	0.56%	\$0.31
6/16/2000	\$55.94	\$56.25	0.56%	\$0.31
6/19/2000	\$56.31	\$56.50	0.33%	\$0.19
6/20/2000	\$56.25	\$56.56	0.55%	\$0.31
6/21/2000	\$55.13	\$55.38	0.45%	\$0.25
6/22/2000	\$51.31	\$51.81	0.97%	\$0.50
6/23/2000	\$53.00	\$53.19	0.35%	\$0.19
6/26/2000	\$53.19	\$53.38	0.35%	\$0.19
6/27/2000	\$53.38	\$53.69	0.58%	\$0.31
6/28/2000	\$51.63	\$51.94	0.60%	\$0.31
6/29/2000	\$50.38	\$50.50	0.25%	\$0.13
6/30/2000	\$51.13	\$51.81	1.34%	\$0.69
7/3/2000	\$52.50	\$52.81	0.59%	\$0.31
7/5/2000	\$53.38	\$53.69	0.58%	\$0.31
7/6/2000	\$54.00	\$54.25	0.46%	\$0.25
7/7/2000	\$54.69	\$54.88	0.34%	\$0.19
7/10/2000	\$55.94	\$56.13	0.33%	\$0.19
7/11/2000	\$57.19	\$57.25	0.11%	\$0.06
7/12/2000	\$56.56	\$56.88	0.55%	\$0.31
7/13/2000	\$55.44	\$55.56	0.23%	\$0.13
7/14/2000	\$55.50	\$55.69	0.34%	\$0.19
7/17/2000	\$55.69	\$55.94	0.45%	\$0.25
7/18/2000	\$55.00	\$55.19	0.34%	\$0.19
7/19/2000	\$53.50	\$53.75	0.47%	\$0.25
7/20/2000	\$52.50	\$52.69	0.36%	\$0.19
7/21/2000	\$51.88	\$52.06	0.36%	\$0.19
7/24/2000	\$51.75	\$52.50	1.44%	\$0.75
7/25/2000	\$55.50	\$55.81	0.56%	\$0.31
7/26/2000	\$55.50	\$55.94	0.79%	\$0.44
7/27/2000	\$55.56	\$56.00	0.78%	\$0.44
7/28/2000	\$55.75	\$56.00	0.45%	\$0.25

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
7/31/2000	\$54.88	\$55.06	0.34%	\$0.19
8/1/2000	\$55.50	\$55.75	0.45%	\$0.25
8/2/2000	\$57.38	\$57.69	0.54%	\$0.31
8/3/2000	\$56.75	\$57.13	0.66%	\$0.38
8/4/2000	\$56.63	\$56.81	0.33%	\$0.19
8/7/2000	\$57.31	\$57.63	0.54%	\$0.31
8/8/2000	\$58.88	\$59.00	0.21%	\$0.13
8/9/2000	\$57.50	\$57.69	0.33%	\$0.19
8/10/2000	\$55.63	\$55.75	0.22%	\$0.13
8/11/2000	\$56.19	\$56.31	0.22%	\$0.13
8/14/2000	\$56.06	\$56.25	0.33%	\$0.19
8/15/2000	\$56.75	\$56.94	0.33%	\$0.19
8/16/2000	\$57.69	\$57.88	0.32%	\$0.19
8/17/2000	\$59.31	\$59.63	0.53%	\$0.31
8/18/2000	\$57.81	\$58.00	0.32%	\$0.19
8/21/2000	\$57.63	\$57.88	0.43%	\$0.25
8/22/2000	\$57.38	\$57.56	0.33%	\$0.19
8/23/2000	\$57.44	\$57.56	0.22%	\$0.13
8/24/2000	\$58.69	\$58.88	0.32%	\$0.19
8/25/2000	\$58.81	\$59.06	0.42%	\$0.25
8/28/2000	\$58.00	\$58.31	0.54%	\$0.31
8/29/2000	\$58.81	\$58.94	0.21%	\$0.13
8/30/2000	\$58.56	\$58.69	0.21%	\$0.13
8/31/2000	\$58.31	\$58.44	0.21%	\$0.13
9/1/2000	\$58.25	\$58.38	0.21%	\$0.13
9/5/2000	\$56.31	\$56.56	0.44%	\$0.25
9/6/2000	\$55.81	\$56.00	0.34%	\$0.19
9/7/2000	\$56.50	\$56.69	0.33%	\$0.19
9/8/2000	\$54.75	\$54.94	0.34%	\$0.19
9/11/2000	\$54.38	\$54.50	0.23%	\$0.13
9/12/2000	\$54.38	\$54.50	0.23%	\$0.13
9/13/2000	\$55.13	\$55.25	0.23%	\$0.13
9/14/2000	\$54.63	\$54.81	0.34%	\$0.19
9/15/2000	\$53.44	\$53.69	0.47%	\$0.25
9/18/2000	\$52.88	\$53.00	0.24%	\$0.13
9/19/2000	\$53.81	\$54.06	0.46%	\$0.25

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
9/20/2000	\$54.13	\$54.38	0.46%	\$0.25
9/21/2000	\$55.94	\$56.13	0.33%	\$0.19
9/22/2000	\$58.81	\$59.00	0.32%	\$0.19
9/25/2000	\$58.81	\$59.00	0.32%	\$0.19
9/26/2000	\$57.94	\$58.06	0.22%	\$0.13
9/27/2000	\$58.44	\$58.56	0.21%	\$0.13
9/28/2000	\$59.94	\$60.06	0.21%	\$0.13
9/29/2000	\$60.06	\$60.38	0.52%	\$0.31
10/2/2000	\$57.06	\$58.06	1.74%	\$1.00
10/3/2000	\$57.19	\$58.19	1.73%	\$1.00
10/4/2000	\$56.56	\$57.56	1.75%	\$1.00
10/5/2000	\$57.00	\$58.00	1.74%	\$1.00
10/6/2000	\$56.38	\$57.38	1.76%	\$1.00
10/9/2000	\$55.81	\$56.81	1.78%	\$1.00
10/10/2000	\$57.31	\$58.31	1.73%	\$1.00
10/11/2000	\$57.31	\$58.31	1.73%	\$1.00
10/12/2000	\$57.00	\$58.00	1.74%	\$1.00
10/13/2000	\$54.44	\$55.44	1.82%	\$1.00
10/16/2000	\$54.69	\$55.69	1.81%	\$1.00
10/17/2000	\$55.94	\$56.94	1.77%	\$1.00
10/18/2000	\$54.50	\$55.50	1.82%	\$1.00
10/19/2000	\$53.06	\$54.06	1.87%	\$1.00
10/20/2000	\$50.25	\$51.25	1.97%	\$1.00
10/23/2000	\$53.38	\$54.38	1.86%	\$1.00
10/24/2000	\$54.50	\$55.50	1.82%	\$1.00
10/25/2000	\$56.38	\$57.38	1.76%	\$1.00
10/26/2000	\$55.31	\$56.31	1.79%	\$1.00
10/27/2000	\$54.13	\$55.13	1.83%	\$1.00
10/30/2000	\$52.13	\$53.13	1.90%	\$1.00
10/31/2000	\$54.50	\$55.50	1.82%	\$1.00
11/1/2000	\$56.94	\$57.94	1.74%	\$1.00
11/2/2000	\$57.50	\$58.50	1.72%	\$1.00
11/3/2000	\$55.75	\$56.75	1.78%	\$1.00
11/6/2000	\$57.06	\$58.06	1.74%	\$1.00
11/7/2000	\$57.00	\$58.00	1.74%	\$1.00
11/8/2000	\$58.94	\$59.94	1.68%	\$1.00

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
11/9/2000	\$58.75	\$59.75	1.69%	\$1.00
11/10/2000	\$58.75	\$59.75	1.69%	\$1.00
11/13/2000	\$56.75	\$57.75	1.75%	\$1.00
11/14/2000	\$58.25	\$59.25	1.70%	\$1.00
11/15/2000	\$57.75	\$58.75	1.72%	\$1.00
11/16/2000	\$56.50	\$57.50	1.75%	\$1.00
11/17/2000	\$59.31	\$60.31	1.67%	\$1.00
11/20/2000	\$59.00	\$60.00	1.68%	\$1.00
11/21/2000	\$59.13	\$60.13	1.68%	\$1.00
11/22/2000	\$57.56	\$58.56	1.72%	\$1.00
11/24/2000	\$57.19	\$58.19	1.73%	\$1.00
11/27/2000	\$59.00	\$60.00	1.68%	\$1.00
11/28/2000	\$58.75	\$59.75	1.69%	\$1.00
11/29/2000	\$60.44	\$61.44	1.64%	\$1.00
11/30/2000	\$60.50	\$61.50	1.64%	\$1.00
12/1/2000	\$57.00	\$58.00	1.74%	\$1.00
12/4/2000	\$58.56	\$59.56	1.69%	\$1.00
12/5/2000	\$59.25	\$60.25	1.67%	\$1.00
12/6/2000	\$57.25	\$58.25	1.73%	\$1.00
12/7/2000	\$57.50	\$58.50	1.72%	\$1.00
12/8/2000	\$58.50	\$59.50	1.69%	\$1.00
12/11/2000	\$58.50	\$58.88	0.64%	\$0.38
12/12/2000	\$57.31	\$58.31	1.73%	\$1.00
12/13/2000	\$58.06	\$59.06	1.71%	\$1.00
12/14/2000	\$58.81	\$59.81	1.69%	\$1.00
12/15/2000	\$59.13	\$60.13	1.68%	\$1.00
12/18/2000	\$58.88	\$59.88	1.68%	\$1.00
12/19/2000	\$57.50	\$58.50	1.72%	\$1.00
12/20/2000	\$59.44	\$60.44	1.67%	\$1.00
12/21/2000	\$57.56	\$58.56	1.72%	\$1.00
12/22/2000	\$56.94	\$57.94	1.74%	\$1.00
12/26/2000	\$58.13	\$59.00	1.49%	\$0.88
12/27/2000	\$59.50	\$60.50	1.67%	\$1.00
12/28/2000	\$60.44	\$61.44	1.64%	\$1.00
12/29/2000	\$60.50	\$61.50	1.64%	\$1.00
1/2/2001	\$59.50	\$60.50	1.67%	\$1.00

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
1/3/2001	\$56.50	\$57.50	1.75%	\$1.00
1/4/2001	\$54.81	\$55.81	1.81%	\$1.00
1/5/2001	\$55.88	\$56.88	1.77%	\$1.00
1/8/2001	\$56.00	\$57.00	1.77%	\$1.00
1/9/2001	\$55.19	\$56.19	1.80%	\$1.00
1/10/2001	\$55.00	\$56.00	1.80%	\$1.00
1/11/2001	\$54.44	\$55.44	1.82%	\$1.00
1/12/2001	\$55.00	\$56.00	1.80%	\$1.00
1/16/2001	\$55.81	\$56.81	1.78%	\$1.00
1/17/2001	\$55.38	\$56.38	1.79%	\$1.00
1/18/2001	\$56.31	\$57.31	1.76%	\$1.00
1/19/2001	\$55.75	\$56.75	1.78%	\$1.00
1/22/2001	\$55.69	\$56.69	1.78%	\$1.00
1/23/2001	\$55.06	\$56.06	1.80%	\$1.00
1/24/2001	\$54.88	\$55.88	1.81%	\$1.00
1/25/2001	\$55.00	\$56.00	1.80%	\$1.00
1/26/2001	\$55.31	\$56.31	1.79%	\$1.00
1/29/2001	\$54.90	\$55.90	1.81%	\$1.00
1/30/2001	\$54.68	\$55.68	1.81%	\$1.00
1/31/2001	\$55.51	\$56.51	1.79%	\$1.00
2/1/2001	\$56.58	\$57.58	1.75%	\$1.00
2/2/2001	\$57.31	\$58.31	1.73%	\$1.00
2/5/2001	\$57.78	\$58.78	1.72%	\$1.00
2/6/2001	\$57.15	\$58.15	1.73%	\$1.00
2/7/2001	\$55.63	\$56.63	1.78%	\$1.00
2/8/2001	\$53.00	\$53.50	0.94%	\$0.50
2/9/2001	\$53.50	\$54.50	1.85%	\$1.00
2/12/2001	\$53.73	\$54.73	1.84%	\$1.00
2/13/2001	\$51.13	\$52.00	1.69%	\$0.87
2/14/2001	\$51.40	\$52.40	1.93%	\$1.00
2/15/2001	\$51.52	\$52.52	1.92%	\$1.00
2/16/2001	\$50.66	\$51.66	1.95%	\$1.00
2/20/2001	\$49.45	\$50.45	2.00%	\$1.00
2/21/2001	\$48.35	\$49.35	2.05%	\$1.00
2/22/2001	\$48.75	\$49.75	2.03%	\$1.00
2/23/2001	\$48.55	\$49.55	2.04%	\$1.00

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
2/26/2001	\$48.90	\$49.90	2.02%	\$1.00
2/27/2001	\$49.75	\$51.00	2.48%	\$1.25
2/28/2001	\$51.20	\$52.20	1.93%	\$1.00
3/1/2001	\$51.47	\$52.47	1.92%	\$1.00
3/2/2001	\$52.29	\$53.29	1.89%	\$1.00
3/5/2001	\$53.55	\$54.55	1.85%	\$1.00
3/6/2001	\$52.35	\$53.35	1.89%	\$1.00
3/7/2001	\$50.51	\$51.51	1.96%	\$1.00
3/8/2001	\$50.24	\$51.24	1.97%	\$1.00
3/9/2001	\$50.69	\$51.69	1.95%	\$1.00
3/12/2001	\$49.72	\$51.00	2.54%	\$1.28
3/13/2001	\$48.60	\$49.60	2.04%	\$1.00
3/14/2001	\$47.30	\$48.30	2.09%	\$1.00
3/15/2001	\$46.96	\$47.96	2.11%	\$1.00
3/16/2001	\$44.68	\$45.68	2.21%	\$1.00
3/19/2001	\$47.17	\$47.66	1.03%	\$0.49
3/20/2001	\$46.62	\$47.62	2.12%	\$1.00
3/21/2001	\$46.08	\$47.08	2.15%	\$1.00
3/22/2001	\$43.50	\$44.50	2.27%	\$1.00
3/23/2001	\$46.49	\$47.49	2.13%	\$1.00
3/26/2001	\$47.78	\$48.78	2.07%	\$1.00
3/27/2001	\$49.10	\$50.10	2.02%	\$1.00
3/28/2001	\$49.30	\$50.30	2.01%	\$1.00
3/29/2001	\$49.37	\$50.37	2.01%	\$1.00
3/30/2001	\$49.87	\$50.87	1.99%	\$1.00
4/2/2001	\$48.75	\$49.75	2.03%	\$1.00
4/3/2001	\$48.26	\$49.26	2.05%	\$1.00
4/4/2001	\$48.73	\$49.73	2.03%	\$1.00
4/5/2001	\$50.54	\$51.54	1.96%	\$1.00
4/6/2001	\$50.15	\$51.15	1.97%	\$1.00
4/9/2001	\$51.75	\$52.75	1.91%	\$1.00
4/10/2001	\$50.70	\$51.70	1.95%	\$1.00
4/11/2001	\$49.61	\$50.61	2.00%	\$1.00
4/12/2001	\$50.20	\$51.20	1.97%	\$1.00
4/16/2001	\$49.95	\$50.95	1.98%	\$1.00
4/17/2001	\$51.58	\$52.58	1.92%	\$1.00

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
4/18/2001	\$50.25	\$51.25	1.97%	\$1.00
4/19/2001	\$49.58	\$50.50	1.84%	\$0.92
4/20/2001	\$48.05	\$50.00	3.98%	\$1.95
4/23/2001	NA	NA	NA	NA
4/24/2001	\$47.51	\$48.51	2.08%	\$1.00
4/25/2001	\$48.60	\$49.60	2.04%	\$1.00
4/26/2001	\$51.01	\$52.01	1.94%	\$1.00
4/27/2001	\$51.75	\$52.75	1.91%	\$1.00
4/30/2001	\$51.76	\$52.76	1.91%	\$1.00
5/1/2001	\$51.22	\$52.22	1.93%	\$1.00
5/2/2001	\$50.50	\$51.50	1.96%	\$1.00
5/3/2001	\$49.50	\$50.50	2.00%	\$1.00
5/4/2001	\$49.50	\$50.50	2.00%	\$1.00
5/7/2001	\$48.45	\$49.45	2.04%	\$1.00
5/8/2001	\$47.70	\$48.70	2.07%	\$1.00
5/9/2001	\$46.99	\$47.99	2.11%	\$1.00
5/10/2001	\$46.48	\$47.48	2.13%	\$1.00
5/11/2001	\$45.65	\$46.65	2.17%	\$1.00
5/14/2001	\$45.78	\$46.78	2.16%	\$1.00
5/15/2001	\$45.49	\$46.49	2.17%	\$1.00
5/16/2001	\$47.88	\$48.88	2.07%	\$1.00
5/17/2001	\$48.99	\$49.99	2.02%	\$1.00
5/18/2001	\$48.00	\$49.00	2.06%	\$1.00
5/21/2001	\$49.96	\$50.13	0.34%	\$0.17
5/22/2001	\$49.42	\$49.64	0.44%	\$0.22
5/23/2001	\$48.57	\$48.84	0.55%	\$0.27
5/24/2001	\$48.63	\$48.79	0.33%	\$0.16
5/25/2001	\$48.50	\$48.67	0.35%	\$0.17
5/29/2001	\$48.00	\$48.05	0.10%	\$0.05
5/30/2001	\$48.17	\$48.29	0.25%	\$0.12
5/31/2001	\$48.45	\$48.67	0.45%	\$0.22
6/1/2001	\$49.22	\$49.46	0.49%	\$0.24
6/4/2001	\$49.50	\$49.77	0.54%	\$0.27
6/5/2001	\$49.47	\$49.71	0.48%	\$0.24
6/6/2001	\$49.22	\$49.46	0.49%	\$0.24
6/7/2001	\$49.65	\$49.93	0.56%	\$0.28

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
6/8/2001	\$49.55	\$49.81	0.52%	\$0.26
6/11/2001	\$48.95	\$49.16	0.43%	\$0.21
6/12/2001	\$48.81	\$49.10	0.59%	\$0.29
6/13/2001	\$48.60	\$48.90	0.62%	\$0.30
6/14/2001	\$48.03	\$48.25	0.46%	\$0.22
6/15/2001	\$48.70	\$48.91	0.43%	\$0.21
6/18/2001	\$49.01	\$49.24	0.47%	\$0.23
6/19/2001	\$49.40	\$49.67	0.55%	\$0.27
6/20/2001	\$50.63	\$50.86	0.45%	\$0.23
6/21/2001	\$51.35	\$51.65	0.58%	\$0.30
6/22/2001	\$48.67	\$48.90	0.47%	\$0.23
6/25/2001	\$48.70	\$48.96	0.53%	\$0.26
6/26/2001	\$48.31	\$48.53	0.45%	\$0.22
6/27/2001	\$47.11	\$47.33	0.47%	\$0.22
6/28/2001	\$47.01	\$47.24	0.49%	\$0.23
6/29/2001	\$45.75	\$46.10	0.76%	\$0.35
7/2/2001	\$46.47	\$46.69	0.47%	\$0.22
7/3/2001	\$46.42	\$46.70	0.60%	\$0.28
7/5/2001	\$46.36	\$46.61	0.54%	\$0.25
7/6/2001	\$45.97	\$46.17	0.43%	\$0.20
7/9/2001	\$46.70	\$46.92	0.47%	\$0.22
7/10/2001	\$46.84	\$47.05	0.45%	\$0.21
7/11/2001	\$46.56	\$46.81	0.54%	\$0.25
7/12/2001	\$46.11	\$46.34	0.50%	\$0.23
7/13/2001	\$46.73	\$46.95	0.47%	\$0.22
7/16/2001	\$42.74	\$42.95	0.49%	\$0.21
7/17/2001	\$42.47	\$42.71	0.56%	\$0.24
7/18/2001	\$43.05	\$43.30	0.58%	\$0.25
7/19/2001	\$43.24	\$43.46	0.51%	\$0.22
7/20/2001	\$43.51	\$43.75	0.55%	\$0.24
7/23/2001	\$43.30	\$43.52	0.51%	\$0.22
7/24/2001	\$41.80	\$42.10	0.72%	\$0.30
7/25/2001	\$41.97	\$42.23	0.62%	\$0.26
7/26/2001	\$41.73	\$41.97	0.57%	\$0.24
7/27/2001	\$42.02	\$42.30	0.66%	\$0.28
7/30/2001	\$43.14	\$43.37	0.53%	\$0.23

Exhibit-5
Pharmacia Corp. Bid-Ask Spread

	PHA	PHA		
Date	Closing Bid	Closing Ask	% Spread	\$ Spread
7/31/2001	\$44.44	\$44.69	0.56%	\$0.25
8/1/2001	\$44.35	\$44.53	0.41%	\$0.18
8/2/2001	\$43.74	\$43.97	0.52%	\$0.23
8/3/2001	\$43.89	\$44.09	0.45%	\$0.20
Average	\$52.82	\$53.44	1.17%	\$0.62

Source: CRSP

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

				MON		
	DHA Shara	PHA Shares	MON Share	Shares Owned by	Value of MON per	PHA Adjusted
Date	Price Price	Outstanding Outstanding	Price	PHA	PHA Share	for MON
10/18/2000	\$55.00	1,269,325	\$21.50	220,000	\$3.73	\$51.27
10/19/2000	\$53.56	1,269,325	\$24.00	220,000	\$4.16	\$49.40
10/20/2000	\$50.75	1,269,325	\$23.13	220,000	\$4.01	\$46.74
10/23/2000	\$53.88	1,269,325	\$22.00	220,000	\$3.81	\$50.06
10/24/2000	\$55.00	1,269,325	\$22.13	220,000	\$3.83	\$51.17
10/25/2000	\$56.88	1,269,325	\$22.94	220,000	\$3.98	\$52.90
10/26/2000	\$55.81	1,269,325	\$23.44	220,000	\$4.06	\$51.75
10/27/2000	\$54.63	1,269,325	\$23.94	220,000	\$4.15	\$50.48
10/30/2000	\$52.63	1,269,325	\$24.63	220,000	\$4.27	\$48.36
10/31/2000	\$55.00	1,269,325	\$25.50	220,000	\$4.42	\$50.58
11/1/2000	\$57.44	1,269,325	\$23.75	220,000	\$4.12	\$53.32
11/2/2000	\$58.00	1,269,325	\$23.06	220,000	\$4.00	\$54.00
11/3/2000	\$56.25	1,269,325	\$22.94	220,000	\$3.98	\$52.27
11/6/2000	\$57.56	1,269,325	\$23.31	220,000	\$4.04	\$53.52
11/7/2000	\$57.50	1,269,325	\$23.25	220,000	\$4.03	\$53.47
11/8/2000	\$59.44	1,269,325	\$23.06	220,000	\$4.00	\$55.44
11/9/2000	\$59.25	1,269,325	\$23.00	220,000	\$3.99	\$55.26
11/10/2000	\$59.25	1,269,325	\$22.50	220,000	\$3.90	\$55.35
11/13/2000	\$57.25	1,269,325	\$22.56	220,000	\$3.91	\$53.34
11/14/2000	\$58.75	1,269,325	\$23.44	220,000	\$4.06	\$54.69
11/15/2000	\$58.25	1,269,325	\$24.38	220,000	\$4.22	\$54.03
11/16/2000	\$57.00	1,269,325	\$23.81	220,000	\$4.13	\$52.87
11/17/2000	\$59.81	1,269,325	\$24.13	220,000	\$4.18	\$55.63
11/20/2000	\$59.50	1,269,325	\$23.31	220,000	\$4.04	\$55.46
11/21/2000	\$59.63	1,269,325	\$23.13	220,000	\$4.01	\$55.62
11/22/2000	\$58.06	1,269,325	\$22.81	220,000	\$3.95	\$54.11
11/24/2000	\$57.69	1,269,325	\$23.44	220,000	\$4.06	\$53.63
11/27/2000	\$59.50	1,269,325	\$23.56	220,000	\$4.08	\$55.42
11/28/2000	\$59.25	1,269,325	\$23.88	220,000	\$4.14	\$55.11
11/29/2000	\$60.94	1,269,325	\$25.00	220,000	\$4.33	\$56.60
11/30/2000	\$61.00	1,288,998	\$25.06	220,000	\$4.28	\$56.72
12/1/2000	\$57.50	1,288,998	\$24.81	220,000	\$4.23	\$53.27
12/4/2000	\$59.06	1,288,998	\$25.25	220,000	\$4.31	\$54.75

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

					MON			
				MON	Shares	Value of	PHA	
		PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted	
_	Date	Price	Outstanding	Price	PHA	PHA Share	for MON	_
	12/5/2000	\$59.75	1,288,998	\$25.25	220,000	\$4.31	\$55.44	
	12/6/2000	\$57.75	1,288,998	\$25.31	220,000	\$4.32	\$53.43	
	12/7/2000	\$58.00	1,288,998	\$24.94	220,000	\$4.26	\$53.74	
	12/8/2000	\$59.00	1,288,998	\$24.88	220,000	\$4.25	\$54.75	
	12/11/2000	\$58.69	1,288,998	\$25.69	220,000	\$4.38	\$54.30	
	12/12/2000	\$57.81	1,288,998	\$25.13	220,000	\$4.29	\$53.52	
	12/13/2000	\$58.56	1,288,998	\$25.25	220,000	\$4.31	\$54.25	
	12/14/2000	\$59.31	1,288,998	\$25.38	220,000	\$4.33	\$54.98	
	12/15/2000	\$59.63	1,288,998	\$25.38	220,000	\$4.33	\$55.29	
	12/18/2000	\$59.38	1,288,998	\$25.63	220,000	\$4.37	\$55.00	
	12/19/2000	\$58.00	1,288,998	\$25.38	220,000	\$4.33	\$53.67	
	12/20/2000	\$59.94	1,288,998	\$25.06	220,000	\$4.28	\$55.66	
	12/21/2000	\$58.06	1,288,998	\$23.94	220,000	\$4.09	\$53.98	
	12/22/2000	\$57.44	1,288,998	\$23.69	220,000	\$4.04	\$53.39	
	12/26/2000	\$58.63	1,288,998	\$24.06	220,000	\$4.11	\$54.52	
	12/27/2000	\$60.00	1,288,998	\$25.19	220,000	\$4.30	\$55.70	
	12/28/2000	\$60.94	1,288,998	\$26.19	220,000	\$4.47	\$56.47	
	12/29/2000	\$61.00	1,288,998	\$27.06	220,000	\$4.62	\$56.38	
	1/2/2001	\$60.00	1,288,998	\$28.25	220,000	\$4.82	\$55.18	
	1/3/2001	\$57.00	1,288,998	\$31.38	220,000	\$5.35	\$51.65	
	1/4/2001	\$55.31	1,288,998	\$30.50	220,000	\$5.21	\$50.11	
	1/5/2001	\$56.38	1,288,998	\$29.69	220,000	\$5.07	\$51.31	
	1/8/2001	\$56.50	1,288,998	\$29.69	220,000	\$5.07	\$51.43	
	1/9/2001	\$55.69	1,288,998	\$29.38	220,000	\$5.01	\$50.67	
	1/10/2001	\$55.50	1,288,998	\$29.63	220,000	\$5.06	\$50.44	
	1/11/2001	\$54.94	1,288,998	\$29.25	220,000	\$4.99	\$49.95	
	1/12/2001	\$55.50	1,288,998	\$30.00	220,000	\$5.12	\$50.38	
	1/16/2001	\$56.31	1,288,998	\$30.19	220,000	\$5.15	\$51.16	
	1/17/2001	\$55.88	1,288,998	\$30.50	220,000	\$5.21	\$50.67	
	1/18/2001	\$56.81	1,288,998	\$30.81	220,000	\$5.26	\$51.55	
	1/19/2001	\$56.25	1,288,998	\$29.13	220,000	\$4.97	\$51.28	
	1/22/2001	\$56.19	1,288,998	\$28.81	220,000	\$4.92	\$51.27	
	1/23/2001	\$55.56	1,288,998	\$28.50	220,000	\$4.86	\$50.70	

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

				MON		
	DIIA CL	DITA CI	MON	Shares	Value of	PHA
Date	PHA Snare Price	PHA Shares Outstanding	Share Price	Owned by PHA	MON per PHA Share	Adjusted for MON
1/24/2001	\$55.38	1,288,998	\$28.94	220,000	\$4.94	\$50.44
1/25/2001	\$55.50	1,288,998	\$29.31	220,000	\$5.00	\$50.50
1/26/2001	\$55.81	1,288,998	\$30.19	220,000	\$5.15	\$50.66
1/29/2001	\$55.40	1,288,998	\$30.85	220,000	\$5.27	\$50.13
1/30/2001	\$55.18	1,288,998	\$31.03	220,000	\$5.30	\$49.88
1/31/2001	\$56.02	1,288,998	\$31.51	220,000	\$5.38	\$50.64
2/1/2001	\$57.08	1,288,998	\$31.01	220,000	\$5.29	\$51.79
2/2/2001	\$57.81	1,288,998	\$30.00	220,000	\$5.12	\$52.69
2/5/2001	\$58.28	1,288,998	\$30.00	220,000	\$5.12	\$53.16
2/6/2001	\$57.65	1,288,998	\$30.71	220,000	\$5.24	\$52.41
2/7/2001	\$56.13	1,288,998	\$31.32	220,000	\$5.35	\$50.78
2/8/2001	\$53.00	1,288,998	\$32.00	220,000	\$5.46	\$47.54
2/9/2001	\$54.00	1,288,998	\$33.37	220,000	\$5.70	\$48.30
2/12/2001	\$54.23	1,288,998	\$34.40	220,000	\$5.87	\$48.36
2/13/2001	\$51.63	1,288,998	\$35.50	220,000	\$6.06	\$45.57
2/14/2001	\$51.90	1,288,998	\$33.98	220,000	\$5.80	\$46.10
2/15/2001	\$52.02	1,288,998	\$33.73	220,000	\$5.76	\$46.26
2/16/2001	\$51.16	1,288,998	\$31.78	220,000	\$5.42	\$45.74
2/20/2001	\$49.95	1,288,998	\$28.75	220,000	\$4.91	\$45.04
2/21/2001	\$48.85	1,288,998	\$29.90	220,000	\$5.10	\$43.75
2/22/2001	\$49.25	1,288,998	\$29.99	220,000	\$5.12	\$44.13
2/23/2001	\$49.05	1,288,998	\$28.20	220,000	\$4.81	\$44.24
2/26/2001	\$49.40	1,288,998	\$30.05	220,000	\$5.13	\$44.27
2/27/2001	\$50.25	1,288,998	\$29.90	220,000	\$5.10	\$45.15
2/28/2001	\$51.70	1,288,998	\$32.00	220,000	\$5.46	\$46.24
3/1/2001	\$51.97	1,288,998	\$32.35	220,000	\$5.52	\$46.45
3/2/2001	\$52.79	1,288,998	\$32.65	220,000	\$5.57	\$47.22
3/5/2001	\$54.05	1,288,998	\$33.62	220,000	\$5.74	\$48.31
3/6/2001	\$52.85	1,288,998	\$34.51	220,000	\$5.89	\$46.96
3/7/2001	\$51.01	1,288,998	\$33.90	220,000	\$5.79	\$45.22
3/8/2001	\$50.74	1,288,998	\$34.11	220,000	\$5.82	\$44.92
3/9/2001	\$51.19	1,288,998	\$33.48	220,000	\$5.71	\$45.48
3/12/2001	\$50.22	1,288,998	\$33.00	220,000	\$5.63	\$44.59

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

				MON		
			MON	Shares	Value of	PHA
	PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted
Date	Price	Outstanding	Price	PHA	PHA Share	for MON
3/13/2001	\$49.10	1,288,998	\$32.95	220,000	\$5.62	\$43.48
3/14/2001	\$47.80	1,288,998	\$32.60	220,000	\$5.56	\$42.24
3/15/2001	\$47.46	1,288,998	\$33.75	220,000	\$5.76	\$41.70
3/16/2001	\$45.18	1,288,998	\$33.68	220,000	\$5.75	\$39.43
3/19/2001	\$47.16	1,288,998	\$33.05	220,000	\$5.64	\$41.52
3/20/2001	\$47.12	1,288,998	\$33.05	220,000	\$5.64	\$41.48
3/21/2001	\$46.58	1,288,998	\$33.19	220,000	\$5.66	\$40.92
3/22/2001	\$44.00	1,288,998	\$33.01	220,000	\$5.63	\$38.37
3/23/2001	\$46.99	1,288,998	\$33.02	220,000	\$5.64	\$41.35
3/26/2001	\$48.28	1,288,998	\$34.00	220,000	\$5.80	\$42.48
3/27/2001	\$49.60	1,288,998	\$33.25	220,000	\$5.67	\$43.93
3/28/2001	\$49.80	1,288,998	\$33.10	220,000	\$5.65	\$44.15
3/29/2001	\$49.87	1,288,998	\$33.85	220,000	\$5.78	\$44.09
3/30/2001	\$50.37	1,299,800	\$35.46	220,000	\$6.00	\$44.37
4/2/2001	\$49.25	1,299,800	\$35.65	220,000	\$6.03	\$43.22
4/3/2001	\$48.76	1,299,800	\$35.02	220,000	\$5.93	\$42.83
4/4/2001	\$49.23	1,299,800	\$35.48	220,000	\$6.01	\$43.22
4/5/2001	\$51.04	1,299,800	\$36.80	220,000	\$6.23	\$44.81
4/6/2001	\$50.65	1,299,800	\$36.00	220,000	\$6.09	\$44.56
4/9/2001	\$52.25	1,299,800	\$35.99	220,000	\$6.09	\$46.16
4/10/2001	\$51.20	1,299,800	\$35.51	220,000	\$6.01	\$45.19
4/11/2001	\$50.11	1,299,800	\$34.85	220,000	\$5.90	\$44.21
4/12/2001	\$50.70	1,299,800	\$34.69	220,000	\$5.87	\$44.83
4/16/2001	\$50.45	1,299,800	\$34.55	220,000	\$5.85	\$44.60
4/17/2001	\$52.08	1,299,800	\$35.80	220,000	\$6.06	\$46.02
4/18/2001	\$50.75	1,299,800	\$34.51	220,000	\$5.84	\$44.91
4/19/2001	\$49.70	1,299,800	\$34.80	220,000	\$5.89	\$43.81
4/20/2001	\$48.55	1,299,800	\$35.10	220,000	\$5.94	\$42.61
4/23/2001	\$48.50	1,299,800	\$34.91	220,000	\$5.91	\$42.59
4/24/2001	\$48.01	1,299,800	\$33.59	220,000	\$5.69	\$42.32
4/25/2001	\$49.10	1,299,800	\$34.20	220,000	\$5.79	\$43.31
4/26/2001	\$51.51	1,299,800	\$31.93	220,000	\$5.40	\$46.11
4/27/2001	\$52.25	1,299,800	\$30.30	220,000	\$5.13	\$47.12

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

				MON			
			MON	Shares	Value of	PHA	
	PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted	
Date	Price	Outstanding	Price	PHA	PHA Share	for MON	
4/30/2001	\$52.26	1,299,800	\$30.95	220,000	\$5.24	\$47.02	
5/1/2001	\$51.72	1,299,800	\$32.00	220,000	\$5.42	\$46.30	
5/2/2001	\$51.00	1,299,800	\$32.54	220,000	\$5.51	\$45.49	
5/3/2001	\$50.00	1,299,800	\$32.62	220,000	\$5.52	\$44.48	
5/4/2001	\$50.00	1,299,800	\$32.30	220,000	\$5.47	\$44.53	
5/7/2001	\$48.95	1,299,800	\$32.20	220,000	\$5.45	\$43.50	
5/8/2001	\$48.20	1,299,800	\$32.00	220,000	\$5.42	\$42.78	
5/9/2001	\$47.49	1,299,800	\$32.20	220,000	\$5.45	\$42.04	
5/10/2001	\$46.98	1,299,800	\$32.50	220,000	\$5.50	\$41.48	
5/11/2001	\$46.15	1,299,800	\$33.27	220,000	\$5.63	\$40.52	
5/14/2001	\$46.28	1,299,800	\$33.40	220,000	\$5.65	\$40.63	
5/15/2001	\$45.99	1,299,800	\$34.58	220,000	\$5.85	\$40.14	
5/16/2001	\$48.38	1,299,800	\$36.00	220,000	\$6.09	\$42.29	
5/17/2001	\$49.49	1,299,800	\$36.40	220,000	\$6.16	\$43.33	
5/18/2001	\$49.60	1,299,800	\$36.51	220,000	\$6.18	\$43.42	
5/21/2001	\$50.02	1,299,800	\$36.30	220,000	\$6.14	\$43.88	
5/22/2001	\$49.50	1,299,800	\$35.42	220,000	\$6.00	\$43.50	
5/23/2001	\$48.74	1,299,800	\$35.25	220,000	\$5.97	\$42.77	
5/24/2001	\$48.69	1,299,800	\$35.47	220,000	\$6.00	\$42.69	
5/25/2001	\$48.56	1,299,800	\$35.60	220,000	\$6.03	\$42.53	
5/29/2001	\$48.01	1,299,800	\$35.00	220,000	\$5.92	\$42.09	
5/30/2001	\$48.25	1,299,800	\$34.85	220,000	\$5.90	\$42.35	
5/31/2001	\$48.56	1,300,973	\$35.50	220,000	\$6.00	\$42.56	
6/1/2001	\$49.35	1,300,973	\$35.82	220,000	\$6.06	\$43.29	
6/4/2001	\$49.66	1,300,973	\$37.31	220,000	\$6.31	\$43.35	
6/5/2001	\$49.60	1,300,973	\$36.40	220,000	\$6.16	\$43.44	
6/6/2001	\$49.35	1,300,973	\$35.70	220,000	\$6.04	\$43.31	
6/7/2001	\$49.81	1,300,973	\$35.95	220,000	\$6.08	\$43.73	
6/8/2001	\$49.70	1,300,973	\$36.58	220,000	\$6.19	\$43.51	
6/11/2001	\$49.06	1,300,973	\$36.30	220,000	\$6.14	\$42.92	
6/12/2001	\$48.97	1,300,973	\$37.35	220,000	\$6.32	\$42.65	
6/13/2001	\$48.75	1,300,973	\$38.12	220,000	\$6.45	\$42.30	
6/14/2001	\$48.15	1,300,973	\$37.20	220,000	\$6.29	\$41.86	

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

				MON		
			MON	Shares	Value of	PHA
	PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted
Date	Price	Outstanding	Price	PHA	PHA Share	for MON
6/15/2001	\$48.80	1,300,973	\$37.52	220,000	\$6.34	\$42.46
6/18/2001	\$49.19	1,300,973	\$37.54	220,000	\$6.35	\$42.84
6/19/2001	\$49.51	1,300,973	\$36.50	220,000	\$6.17	\$43.34
6/20/2001	\$50.75	1,300,973	\$36.74	220,000	\$6.21	\$44.54
6/21/2001	\$51.50	1,300,973	\$35.87	220,000	\$6.07	\$45.43
6/22/2001	\$48.79	1,300,973	\$35.29	220,000	\$5.97	\$42.82
6/25/2001	\$48.85	1,300,973	\$35.00	220,000	\$5.92	\$42.93
6/26/2001	\$48.43	1,300,973	\$35.00	220,000	\$5.92	\$42.51
6/27/2001	\$47.22	1,300,973	\$35.99	220,000	\$6.09	\$41.13
6/28/2001	\$47.12	1,300,973	\$36.05	220,000	\$6.10	\$41.02
6/29/2001	\$45.95	1,300,973	\$37.00	220,000	\$6.26	\$39.69
7/2/2001	\$46.58	1,300,973	\$38.00	220,000	\$6.43	\$40.15
7/3/2001	\$46.59	1,300,973	\$37.90	220,000	\$6.41	\$40.18
7/5/2001	\$46.50	1,300,973	\$37.20	220,000	\$6.29	\$40.21
7/6/2001	\$46.00	1,300,973	\$36.70	220,000	\$6.21	\$39.79
7/9/2001	\$46.81	1,300,973	\$36.47	220,000	\$6.17	\$40.64
7/10/2001	\$46.95	1,300,973	\$36.90	220,000	\$6.24	\$40.71
7/11/2001	\$46.70	1,300,973	\$36.91	220,000	\$6.24	\$40.46
7/12/2001	\$46.22	1,300,973	\$35.28	220,000	\$5.97	\$40.25
7/13/2001	\$46.85	1,300,973	\$33.37	220,000	\$5.64	\$41.21
7/16/2001	\$42.84	1,300,973	\$33.35	220,000	\$5.64	\$37.20
7/17/2001	\$42.60	1,300,973	\$34.02	220,000	\$5.75	\$36.85
7/18/2001	\$43.15	1,300,973	\$33.60	220,000	\$5.68	\$37.47
7/19/2001	\$43.35	1,300,973	\$33.70	220,000	\$5.70	\$37.65
7/20/2001	\$43.65	1,300,973	\$33.65	220,000	\$5.69	\$37.96
7/23/2001	\$43.41	1,300,973	\$33.60	220,000	\$5.68	\$37.73
7/24/2001	\$42.00	1,300,973	\$32.04	220,000	\$5.42	\$36.58
7/25/2001	\$42.12	1,300,973	\$34.26	220,000	\$5.79	\$36.33
7/26/2001	\$41.85	1,300,973	\$33.89	220,000	\$5.73	\$36.12
7/27/2001	\$42.12	1,300,973	\$33.84	220,000	\$5.72	\$36.40
7/30/2001	\$43.28	1,300,973	\$34.04	220,000	\$5.76	\$37.52
7/31/2001	\$44.62	1,300,973	\$35.20	220,000	\$5.95	\$38.67
8/1/2001	\$44.55	1,300,973	\$35.90	220,000	\$6.07	\$38.48

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

					MON		
				MON	Shares	Value of	PHA
		PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted
_	Date	Price	Outstanding	Price	PHA	PHA Share	for MON
	8/2/2001	\$43.90	1,300,973	\$36.85	220,000	\$6.23	\$37.67
	8/3/2001	\$44.00	1,300,973	\$37.00	220,000	\$6.26	\$37.74
	8/6/2001	\$44.00	1,300,973	\$36.51	220,000	\$6.17	\$37.83
	8/7/2001	\$45.10	1,300,973	\$35.07	220,000	\$5.93	\$39.17
	8/8/2001	\$44.32	1,300,973	\$35.50	220,000	\$6.00	\$38.32
	8/9/2001	\$44.35	1,300,973	\$33.50	220,000	\$5.66	\$38.69
	8/10/2001	\$44.68	1,300,973	\$34.60	220,000	\$5.85	\$38.83
	8/13/2001	\$45.35	1,300,973	\$34.95	220,000	\$5.91	\$39.44
	8/14/2001	\$44.90	1,300,973	\$34.98	220,000	\$5.92	\$38.98
	8/15/2001	\$44.87	1,300,973	\$35.00	220,000	\$5.92	\$38.95
	8/16/2001	\$45.00	1,300,973	\$34.55	220,000	\$5.84	\$39.16
	8/17/2001	\$44.44	1,300,973	\$34.66	220,000	\$5.86	\$38.58
	8/20/2001	\$44.25	1,300,973	\$34.79	220,000	\$5.88	\$38.37
	8/21/2001	\$44.16	1,300,973	\$34.49	220,000	\$5.83	\$38.33
	8/22/2001	\$43.20	1,300,973	\$34.43	220,000	\$5.82	\$37.38
	8/23/2001	\$42.40	1,300,973	\$34.60	220,000	\$5.85	\$36.55
	8/24/2001	\$41.81	1,300,973	\$34.80	220,000	\$5.88	\$35.93
	8/27/2001	\$41.83	1,300,973	\$34.65	220,000	\$5.86	\$35.97
	8/28/2001	\$41.30	1,300,973	\$34.28	220,000	\$5.80	\$35.50
	8/29/2001	\$40.51	1,300,973	\$34.11	220,000	\$5.77	\$34.74
	8/30/2001	\$39.90	1,300,973	\$34.00	220,000	\$5.75	\$34.15
	8/31/2001	\$39.60	1,301,517	\$34.11	220,000	\$5.77	\$33.83
	9/4/2001	\$40.00	1,301,517	\$33.70	220,000	\$5.70	\$34.30
	9/5/2001	\$40.80	1,301,517	\$33.80	220,000	\$5.71	\$35.09
	9/6/2001	\$40.81	1,301,517	\$34.25	220,000	\$5.79	\$35.02
	9/7/2001	\$40.27	1,301,517	\$33.39	220,000	\$5.64	\$34.63
	9/10/2001	\$40.15	1,301,517	\$32.95	220,000	\$5.57	\$34.58
	9/17/2001	\$39.50	1,301,517	\$31.26	220,000	\$5.28	\$34.22
	9/18/2001	\$39.60	1,301,517	\$31.76	220,000	\$5.37	\$34.23
	9/19/2001	\$40.00	1,301,517	\$32.00	220,000	\$5.41	\$34.59
	9/20/2001	\$38.91	1,301,517	\$32.85	220,000	\$5.55	\$33.36
	9/21/2001	\$38.35	1,301,517	\$33.20	220,000	\$5.61	\$32.74
	9/24/2001	\$37.60	1,301,517	\$32.41	220,000	\$5.48	\$32.12

Exhibit-6
Pharmacia Pharmaceuticals Stock Price

18 October 2000 through 18 October 2001

				MON		
			MON	Shares	Value of	PHA
	PHA Share	PHA Shares	Share	Owned by	MON per	Adjusted
Date	Price	Outstanding	Price	PHA	PHA Share	for MON
9/25/2001	\$37.86	1,301,517	\$33.86	220,000	\$5.72	\$32.14
9/26/2001	\$38.74	1,301,517	\$33.81	220,000	\$5.72	\$33.02
9/27/2001	\$40.06	1,301,517	\$33.61	220,000	\$5.68	\$34.38
9/28/2001	\$40.56	1,301,517	\$33.73	220,000	\$5.70	\$34.86
10/1/2001	\$40.75	1,301,517	\$34.00	220,000	\$5.75	\$35.00
10/2/2001	\$41.31	1,301,517	\$34.00	220,000	\$5.75	\$35.56
10/3/2001	\$40.98	1,301,517	\$34.44	220,000	\$5.82	\$35.16
10/4/2001	\$40.05	1,301,517	\$34.75	220,000	\$5.87	\$34.18
10/5/2001	\$40.38	1,301,517	\$33.96	220,000	\$5.74	\$34.64
10/8/2001	\$39.94	1,301,517	\$33.64	220,000	\$5.69	\$34.25
10/9/2001	\$40.00	1,301,517	\$33.20	220,000	\$5.61	\$34.39
10/10/2001	\$40.41	1,301,517	\$34.95	220,000	\$5.91	\$34.50
10/11/2001	\$41.02	1,301,517	\$36.60	220,000	\$6.19	\$34.83
10/12/2001	\$41.03	1,301,517	\$36.75	220,000	\$6.21	\$34.82
10/15/2001	\$41.00	1,301,517	\$36.67	220,000	\$6.20	\$34.80
10/16/2001	\$41.20	1,301,517	\$36.98	220,000	\$6.25	\$34.95
10/17/2001	\$41.80	1,301,517	\$37.00	220,000	\$6.25	\$35.55
10/18/2001	\$41.90	1,301,517	\$36.34	220,000	\$6.14	\$35.76

Sources: CRSP

Monsanto Company Form 10-Q, filed 30 November 2000. Monsanto Company Form 10-K, filed 5 March 2002.

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

	Market Index	Pharma	Market Index	Pharma Index
Date	Level	Index Level	Logarithmic Return	Logarithmic Return
10/18/2000	2,762.66	111.45		
10/19/2000	2,865.05	109.81	3.64%	-1.48%
10/20/2000	2,892.85	110.37	0.97%	0.50%
10/23/2000	2,893.15	112.56	0.01%	1.97%
10/24/2000	2,890.21	111.89	-0.10%	-0.60%
10/25/2000	2,810.93	113.84	-2.78%	1.73%
10/26/2000	2,812.50	112.64	0.06%	-1.05%
10/27/2000	2,836.76	111.46	0.86%	-1.06%
10/30/2000	2,855.80	112.78	0.67%	1.18%
10/31/2000	2,936.84	111.83	2.80%	-0.85%
11/1/2000	2,924.07	112.96	-0.44%	1.00%
11/2/2000	2,953.48	112.01	1.00%	-0.84%
11/3/2000	2,955.11	111.27	0.05%	-0.67%
11/6/2000	2,958.82	112.48	0.13%	1.08%
11/7/2000	2,955.94	111.31	-0.10%	-1.04%
11/8/2000	2,899.98	113.42	-1.91%	1.88%
11/9/2000	2,871.61	113.29	-0.98%	-0.12%
11/10/2000	2,795.74	113.99	-2.68%	0.62%
11/13/2000	2,758.42	109.37	-1.34%	-4.14%
11/14/2000	2,830.43	112.04	2.58%	2.42%
11/15/2000	2,846.02	112.48	0.55%	0.39%
11/16/2000	2,799.23	111.72	-1.66%	-0.68%
11/17/2000	2,786.59	113.02	-0.45%	1.16%
11/20/2000	2,719.98	113.11	-2.42%	0.07%
11/21/2000	2,720.82	114.89	0.03%	1.56%
11/22/2000	2,663.90	113.26	-2.11%	-1.43%
11/24/2000	2,720.16	112.44	2.09%	-0.73%
11/27/2000	2,730.10	116.17	0.36%	3.26%
11/28/2000	2,683.81	117.65	-1.71%	1.27%
11/29/2000	2,685.58	119.68	0.07%	1.71%
11/30/2000	2,633.89	118.12	-1.94%	-1.31%
12/1/2000	2,650.32	115.23	0.62%	-2.48%
12/4/2000	2,660.04	116.90	0.37%	1.44%
12/5/2000	2,780.65	116.34	4.43%	-0.48%
12/6/2000	2,734.85	112.98	-1.66%	-2.93%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

Date	Market Index Level	Pharma Index Level	Market Index Logarithmic Return	Pharma Index Logarithmic Return
12/7/2000	2,718.68	114.05	-0.59%	0.94%
12/8/2000	2,796.12	114.88	2.81%	0.73%
12/11/2000	2,829.54	114.71	1.19%	-0.15%
12/11/2000	2,798.73	114.80	-1.09%	0.08%
12/13/2000	2,766.32	116.87	-1.16%	1.79%
12/14/2000	2,719.52	116.57	-1.71%	-0.26%
12/15/2000	2,671.32	115.93	-1.79%	-0.55%
12/18/2000	2,685.66	116.23	0.54%	0.26%
12/19/2000	2,643.05	117.54	-1.60%	1.12%
12/20/2000	2,550.03	118.82	-3.58%	1.09%
12/21/2000	2,563.86	118.11	0.54%	-0.60%
12/22/2000	2,641.22	116.54	2.97%	-1.34%
12/26/2000	2,655.70	118.84	0.55%	1.95%
12/27/2000	2,692.69	119.85	1.38%	0.85%
12/28/2000	2,718.06	122.23	0.94%	1.97%
12/29/2000	2,687.41	122.43	-1.13%	0.16%
1/2/2001	2,595.30	118.75	-3.49%	-3.04%
1/3/2001	2,732.67	113.07	5.16%	-4.90%
1/4/2001	2,700.38	108.86	-1.19%	-3.79%
1/5/2001	2,622.49	108.89	-2.93%	0.02%
1/8/2001	2,613.50	108.98	-0.34%	0.08%
1/9/2001	2,626.28	111.57	0.49%	2.35%
1/10/2001	2,662.61	109.91	1.37%	-1.50%
1/11/2001	2,702.45	107.05	1.49%	-2.64%
1/12/2001	2,692.95	109.17	-0.35%	1.96%
1/16/2001	2,709.73	111.25	0.62%	1.89%
1/17/2001	2,721.97	108.17	0.45%	-2.81%
1/18/2001	2,755.49	109.71	1.22%	1.41%
1/19/2001	2,744.18	108.21	-0.41%	-1.37%
1/22/2001	2,744.96	109.23	0.03%	0.94%
1/23/2001	2,788.40	109.38	1.57%	0.14%
1/24/2001	2,797.56	108.37	0.33%	-0.93%
1/25/2001	2,776.43	110.08	-0.76%	1.57%
1/26/2001	2,774.49	109.57	-0.07%	-0.47%
1/29/2001	2,799.38	108.20	0.89%	-1.26%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

			Market Index	Pharma Index
- .	Market Index	Pharma	Logarithmic	Logarithmic
Date	Level	Index Level	Return	Return
1/30/2001	2,817.82	107.94	0.66%	-0.24%
1/31/2001	2,799.03	108.09	-0.67%	0.14%
2/1/2001	2,809.77	109.55	0.38%	1.35%
2/2/2001	2,757.46	110.68	-1.88%	1.03%
2/5/2001	2,763.15	109.79	0.21%	-0.81%
2/6/2001	2,764.56	109.14	0.05%	-0.60%
2/7/2001	2,740.28	110.43	-0.88%	1.18%
2/8/2001	2,722.45	110.90	-0.65%	0.42%
2/9/2001	2,683.62	110.99	-1.44%	0.08%
2/12/2001	2,711.47	112.13	1.03%	1.02%
2/13/2001	2,687.95	109.97	-0.87%	-1.95%
2/14/2001	2,687.68	108.03	-0.01%	-1.78%
2/15/2001	2,711.75	107.75	0.89%	-0.26%
2/16/2001	2,655.80	105.16	-2.08%	-2.43%
2/20/2001	2,605.83	106.07	-1.90%	0.85%
2/21/2001	2,557.98	106.49	-1.85%	0.40%
2/22/2001	2,546.42	104.85	-0.45%	-1.55%
2/23/2001	2,536.47	104.60	-0.39%	-0.24%
2/26/2001	2,585.16	106.46	1.90%	1.77%
2/27/2001	2,555.59	106.25	-1.15%	-0.21%
2/28/2001	2,520.48	107.72	-1.38%	1.38%
3/1/2001	2,521.38	106.99	0.04%	-0.68%
3/2/2001	2,508.91	107.18	-0.50%	0.17%
3/5/2001	2,522.57	106.75	0.54%	-0.40%
3/6/2001	2,551.51	104.78	1.14%	-1.87%
3/7/2001	2,566.98	102.47	0.60%	-2.23%
3/8/2001	2,563.74	104.15	-0.13%	1.63%
3/9/2001	2,501.31	104.99	-2.46%	0.80%
3/12/2001	2,395.50	102.44	-4.32%	-2.46%
3/13/2001	2,431.24	102.01	1.48%	-0.42%
3/14/2001	2,370.35	99.53	-2.54%	-2.45%
3/15/2001	2,378.24	98.99	0.33%	-0.54%
3/16/2001	2,328.72	96.54	-2.10%	-2.51%
3/19/2001	2,372.02	98.60	1.84%	2.11%
3/20/2001	2,317.30	97.04	-2.33%	-1.60%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

	Market Index	Pharma	Market Index Logarithmic	Pharma Index Logarithmic
Date	Level	Index Level	Return	Return
3/21/2001	2,274.00	93.47	-1.89%	-3.75%
3/22/2001	2,263.94	93.59	-0.44%	0.13%
3/23/2001	2,310.40	95.08	2.03%	1.58%
3/26/2001	2,336.14	95.98	1.11%	0.94%
3/27/2001	2,389.89	97.00	2.27%	1.06%
3/28/2001	2,327.65	99.10	-2.64%	2.14%
3/29/2001	2,315.14	99.37	-0.54%	0.27%
3/30/2001	2,343.18	99.28	1.20%	-0.09%
4/2/2001	2,306.75	97.25	-1.57%	-2.06%
4/3/2001	2,223.88	95.04	-3.66%	-2.30%
4/4/2001	2,216.55	96.42	-0.33%	1.44%
4/5/2001	2,318.33	98.72	4.49%	2.36%
4/6/2001	2,271.65	98.67	-2.03%	-0.06%
4/9/2001	2,292.59	99.85	0.92%	1.20%
4/10/2001	2,359.02	100.34	2.86%	0.49%
4/11/2001	2,357.12	97.75	-0.08%	-2.62%
4/12/2001	2,394.65	99.46	1.58%	1.74%
4/16/2001	2,382.79	100.34	-0.50%	0.88%
4/17/2001	2,407.74	102.92	1.04%	2.53%
4/18/2001	2,503.29	101.96	3.89%	-0.94%
4/19/2001	2,540.04	100.51	1.46%	-1.43%
4/20/2001	2,518.62	100.05	-0.85%	-0.46%
4/23/2001	2,476.48	100.10	-1.69%	0.05%
4/24/2001	2,449.65	98.41	-1.09%	-1.70%
4/25/2001	2,489.69	101.03	1.62%	2.62%
4/26/2001	2,502.15	102.48	0.50%	1.43%
4/27/2001	2,538.45	103.18	1.44%	0.69%
4/30/2001	2,540.37	103.61	0.08%	0.42%
5/1/2001	2,574.04	103.52	1.32%	-0.09%
5/2/2001	2,582.72	103.42	0.34%	-0.10%
5/3/2001	2,543.36	103.00	-1.54%	-0.40%
5/4/2001	2,578.86	103.94	1.39%	0.91%
5/7/2001	2,570.68	104.84	-0.32%	0.86%
5/8/2001	2,569.02	104.13	-0.06%	-0.68%
5/9/2001	2,557.81	104.53	-0.44%	0.38%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

Date	Market Index Level	Pharma Index Level	Market Index Logarithmic Return	Pharma Index Logarithmic Return
5/10/2001	2,556.68	103.50	-0.04%	-0.99%
5/11/2001	2,537.53	103.68	-0.75%	0.17%
5/14/2001	2,539.97	104.00	0.10%	0.31%
5/15/2001	2,543.62	103.90	0.14%	-0.10%
5/16/2001	2,612.96	106.84	2.69%	2.79%
5/17/2001	2,628.22	108.41	0.58%	1.46%
5/18/2001	2,635.33	107.52	0.27%	-0.82%
5/21/2001	2,684.28	108.47	1.84%	0.87%
5/22/2001	2,679.81	107.79	-0.17%	-0.63%
5/23/2001	2,635.08	106.71	-1.68%	-1.01%
5/24/2001	2,645.96	106.58	0.41%	-0.12%
5/25/2001	2,619.73	106.57	-1.00%	-0.01%
5/29/2001	2,592.58	107.78	-1.04%	1.13%
5/30/2001	2,547.08	107.38	-1.77%	-0.37%
5/31/2001	2,566.52	107.65	0.76%	0.25%
6/1/2001	2,580.32	109.65	0.54%	1.84%
6/4/2001	2,593.43	110.87	0.51%	1.10%
6/5/2001	2,630.35	112.63	1.41%	1.57%
6/6/2001	2,605.51	111.70	-0.95%	-0.83%
6/7/2001	2,619.40	111.51	0.53%	-0.17%
6/8/2001	2,594.42	110.87	-0.96%	-0.57%
6/11/2001	2,569.50	109.59	-0.97%	-1.17%
6/12/2001	2,569.97	109.20	0.02%	-0.35%
6/13/2001	2,544.35	108.51	-1.00%	-0.64%
6/14/2001	2,495.49	108.47	-1.94%	-0.04%
6/15/2001	2,483.32	108.40	-0.49%	-0.06%
6/18/2001	2,466.78	108.31	-0.67%	-0.09%
6/19/2001	2,471.18	108.71	0.18%	0.37%
6/20/2001	2,495.33	109.54	0.97%	0.76%
6/21/2001	2,519.96	109.26	0.98%	-0.26%
6/22/2001	2,497.25	106.73	-0.91%	-2.34%
6/25/2001	2,485.07	105.63	-0.49%	-1.03%
6/26/2001	2,484.76	105.56	-0.01%	-0.07%
6/27/2001	2,479.63	104.02	-0.21%	-1.48%
6/28/2001	2,510.82	105.22	1.25%	1.15%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

	Market Index	Pharma	Market Index Logarithmic	Pharma Index Logarithmic
Date	Level	Index Level	Return	Return
6/29/2001	2,521.76	103.39	0.43%	-1.76%
7/2/2001	2,535.26	105.08	0.53%	1.62%
7/3/2001	2,530.81	105.20	-0.18%	0.11%
7/5/2001	2,500.13	104.55	-1.22%	-0.62%
7/6/2001	2,444.71	103.70	-2.24%	-0.81%
7/9/2001	2,458.65	105.91	0.57%	2.11%
7/10/2001	2,423.55	105.52	-1.44%	-0.38%
7/11/2001	2,418.04	105.82	-0.23%	0.29%
7/12/2001	2,475.03	104.55	2.33%	-1.21%
7/13/2001	2,488.32	105.69	0.54%	1.08%
7/16/2001	2,459.40	105.43	-1.17%	-0.25%
7/17/2001	2,485.55	107.22	1.06%	1.69%
7/18/2001	2,468.56	108.71	-0.69%	1.38%
7/19/2001	2,481.31	108.88	0.52%	0.15%
7/20/2001	2,474.06	109.48	-0.29%	0.55%
7/23/2001	2,437.79	108.04	-1.48%	-1.32%
7/24/2001	2,398.15	105.93	-1.64%	-1.97%
7/25/2001	2,430.99	107.11	1.36%	1.11%
7/26/2001	2,458.96	108.01	1.14%	0.83%
7/27/2001	2,467.04	108.17	0.33%	0.15%
7/30/2001	2,464.12	108.70	-0.12%	0.48%
7/31/2001	2,476.18	110.63	0.49%	1.76%
8/1/2001	2,488.64	109.82	0.50%	-0.73%
8/2/2001	2,496.69	109.58	0.32%	-0.21%
8/3/2001	2,485.12	109.28	-0.46%	-0.28%
8/6/2001	2,457.76	108.84	-1.11%	-0.40%
8/7/2001	2,463.25	109.42	0.22%	0.53%
8/8/2001	2,421.98	108.26	-1.69%	-1.07%
8/9/2001	2,421.59	107.96	-0.02%	-0.27%
8/10/2001	2,431.97	109.35	0.43%	1.28%
8/13/2001	2,437.69	110.06	0.23%	0.64%
8/14/2001	2,431.68	110.64	-0.25%	0.53%
8/15/2001	2,415.13	110.41	-0.68%	-0.21%
8/16/2001	2,419.73	109.21	0.19%	-1.09%
8/17/2001	2,381.16	108.14	-1.61%	-0.99%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

	Market Index	Pharma	Market Index Logarithmic	Pharma Index Logarithmic
Date	Level	Index Level	Return	Return
8/20/2001	2,397.40	110.00	0.68%	1.70%
8/21/2001	2,369.91	109.84	-1.15%	-0.14%
8/22/2001	2,387.49	111.02	0.74%	1.07%
8/23/2001	2,380.76	111.81	-0.28%	0.71%
8/24/2001	2,424.17	112.76	1.81%	0.85%
8/27/2001	2,415.12	112.08	-0.37%	-0.61%
8/28/2001	2,380.38	110.65	-1.45%	-1.28%
8/29/2001	2,357.54	109.56	-0.96%	-0.98%
8/30/2001	2,320.75	109.17	-1.57%	-0.36%
8/31/2001	2,330.26	107.67	0.41%	-1.39%
9/4/2001	2,326.39	110.65	-0.17%	2.73%
9/5/2001	2,318.84	112.58	-0.32%	1.73%
9/6/2001	2,270.76	110.90	-2.10%	-1.51%
9/7/2001	2,230.41	108.78	-1.79%	-1.92%
9/10/2001	2,238.24	109.85	0.35%	0.98%
9/17/2001	2,124.74	109.53	-5.20%	-0.29%
9/18/2001	2,107.11	107.05	-0.83%	-2.29%
9/19/2001	2,071.17	104.77	-1.72%	-2.15%
9/20/2001	2,007.72	102.65	-3.11%	-2.05%
9/21/2001	1,970.37	99.98	-1.88%	-2.63%
9/24/2001	2,044.80	101.05	3.71%	1.06%
9/25/2001	2,060.34	102.98	0.76%	1.90%
9/26/2001	2,047.91	105.17	-0.61%	2.11%
9/27/2001	2,069.83	107.91	1.06%	2.57%
9/28/2001	2,116.94	108.59	2.25%	0.62%
10/1/2001	2,107.55	109.92	-0.44%	1.22%
10/2/2001	2,131.93	110.73	1.15%	0.74%
10/3/2001	2,179.16	109.05	2.19%	-1.53%
10/4/2001	2,178.59	108.73	-0.03%	-0.30%
10/5/2001	2,179.50	110.07	0.04%	1.23%
10/8/2001	2,162.73	109.76	-0.77%	-0.28%
10/9/2001	2,152.31	109.20	-0.48%	-0.52%
10/10/2001	2,202.16	110.86	2.29%	1.51%
10/11/2001	2,240.42	109.68	1.72%	-1.07%
10/12/2001	2,228.37	109.85	-0.54%	0.15%

Exhibit-7

CRSP Market Total Return Index (Market Index) and Peer Index Levels and Returns

Date	Market Index Level	Pharma Index Level	Market Index Logarithmic Return	Pharma Index Logarithmic Return
10/15/2001	2,226.84	110.74	-0.07%	0.81%
10/16/2001	2,244.31	111.59	0.78%	0.77%
10/17/2001	2,200.81	111.00	-1.96%	-0.54%
10/18/2001	2,185.49	111.00	-0.70%	0.01%

Sources: CRSP

Dow Jones

Exhibit-8
Pharmacia Pharmaceuticals Stock Regression Results

Estimation Period: 19 October 2000 through 18 October 2001

Regression Statis	tics
Multiple R	0.605
R Square	0.366
Adjusted R Square	0.345
Standard Error	1.93%
Observations	248
F-Statistic	17.24
F-Statistic Significance Level	~0.00%

	Coefficients	Standard Error	t -statistic
Intercept	-0.10%	0.12%	-0.812
Market Index	0.012	0.083	0.141
Pharmaceutical Index	0.953	0.090	10.570
6 February 2001	-0.74%	1.93%	-0.381
7 February 2001	-4.17%	1.93%	-2.155
8 February 2001	-6.91%	1.93%	-3.578
6 August 2001	0.71%	1.93%	0.368
7 August 2001	3.09%	1.93%	1.599
8 August 2001	-1.07%	1.94%	-0.551

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 172 of 550 PageID: 7806

Exhibit-9
Pharmacia Pharmaceuticals Stock Event Study Results

	PHA	PHA Pharma	PHA Pharma		Pharma	PHA Pharma					
	Pharma	Stock Closing	Stock	Market Index	Index	Stock	PHA Pharma				Dollar
	Stock	Price on Previous	Logarithmic	Logarithmic	Logarithmic	Explained	Stock Residual			Statistically	Residual
Date	Closing Price	Trading Day	Return	Return	Return	Return	Return	t -statistic	p-value	Significant	Return
6 February 2001	\$52.41	\$53.16	-1.42%	0.05%	-0.62%	-0.69%	-0.74%	-0.38	0.7027	No	(\$0.39)
7 February 2001	\$50.78	\$52.41	-3.15%	-0.88%	1.19%	1.02%	-4.17%	-2.16	0.0314	Yes	(\$2.14)
8 February 2001	\$47.54	\$50.78	-6.61%	-0.65%	0.43%	0.30%	-6.91%	-3.59	0.0004	Yes	(\$3.39)
3-Day			-11.18%	-1.48%	1.00%	0.64%	-11.81%	-3.54	0.0005	Yes	(\$5.92)
6 August 2001	\$37.83	\$37.74	0.22%	-1.11%	-0.40%	-0.49%	0.71%	0.37	0.7122	No	\$0.27
7 August 2001	\$39.17	\$37.83	3.49%	0.22%	0.53%	0.40%	3.09%	1.60	0.1102	No	\$1.19
8 August 2001	\$38.32	\$39.17	-2.20%	-1.69%	-1.06%	-1.13%	-1.07%	-0.55	0.5802	No	(\$0.42)
3-Day			1.51%	-2.57%	-0.94%	-1.22%	2,73%	0.82	0.4135	No	\$1.04

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
10/18/2000	155.33	
10/19/2000	152.07	-2.12%
10/20/2000	152.39	0.21%
10/23/2000	152.69	0.20%
10/24/2000	161.25	5.45%
10/25/2000	159.00	-1.40%
10/26/2000	160.09	0.68%
10/27/2000	162.67	1.60%
10/30/2000	174.10	6.79%
10/31/2000	176.24	1.22%
11/1/2000	172.91	-1.91%
11/2/2000	172.78	-0.07%
11/3/2000	173.74	0.55%
11/6/2000	172.48	-0.73%
11/7/2000	174.40	1.11%
11/8/2000	177.82	1.94%
11/9/2000	174.80	-1.71%
11/10/2000	171.08	-2.15%
11/13/2000	171.86	0.45%
11/14/2000	173.28	0.83%
11/15/2000	175.82	1.45%
11/16/2000	169.62	-3.59%
11/17/2000	172.01	1.40%
11/20/2000	168.54	-2.04%
11/21/2000	167.61	-0.55%
11/22/2000	166.69	-0.56%
11/24/2000	167.75	0.64%
11/27/2000	165.73	-1.21%
11/28/2000	164.40	-0.81%
11/29/2000	169.78	3.22%
11/30/2000	169.92	0.09%
12/1/2000	175.31	3.12%
12/4/2000	186.10	5.97%
12/5/2000	188.46	1.26%
12/6/2000	182.10	-3.43%
12/7/2000	176.73	-2.99%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
12/8/2000	178.91	1.22%
12/11/2000	175.84	-1.73%
12/12/2000	175.73	-0.07%
12/13/2000	176.14	0.24%
12/14/2000	177.69	0.87%
12/15/2000	172.86	-2.75%
12/18/2000	178.94	3.45%
12/19/2000	183.61	2.58%
12/20/2000	179.69	-2.16%
12/21/2000	187.37	4.18%
12/22/2000	194.62	3.80%
12/26/2000	195.84	0.63%
12/27/2000	200.04	2.12%
12/28/2000	201.44	0.70%
12/29/2000	197.21	-2.12%
1/2/2001	192.84	-2.24%
1/3/2001	194.29	0.75%
1/4/2001	200.35	3.08%
1/5/2001	194.24	-3.10%
1/8/2001	195.87	0.84%
1/9/2001	187.86	-4.18%
1/10/2001	187.82	-0.02%
1/11/2001	182.08	-3.10%
1/12/2001	178.59	-1.94%
1/16/2001	183.41	2.67%
1/17/2001	181.82	-0.87%
1/18/2001	180.69	-0.62%
1/19/2001	175.99	-2.64%
1/22/2001	174.79	-0.68%
1/23/2001	175.74	0.54%
1/24/2001	175.89	0.09%
1/25/2001	177.73	1.04%
1/26/2001	175.01	-1.54%
1/29/2001	175.44	0.25%
1/30/2001	183.06	4.25%
1/31/2001	185.43	1.29%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
2/1/2001	185.45	0.01%
2/2/2001	183.59	-1.01%
2/5/2001	186.55	1.60%
2/6/2001	185.07	-0.80%
2/7/2001	186.09	0.55%
2/8/2001	183.17	-1.58%
2/9/2001	182.03	-0.62%
2/12/2001	182.19	0.08%
2/13/2001	184.16	1.08%
2/14/2001	183.28	-0.48%
2/15/2001	188.61	2.87%
2/16/2001	184.54	-2.18%
2/20/2001	183.73	-0.44%
2/21/2001	181.83	-1.04%
2/22/2001	182.45	0.34%
2/23/2001	177.94	-2.50%
2/26/2001	187.21	5.08%
2/27/2001	187.81	0.32%
2/28/2001	188.63	0.44%
3/1/2001	189.23	0.31%
3/2/2001	192.68	1.81%
3/5/2001	196.05	1.73%
3/6/2001	196.10	0.03%
3/7/2001	202.36	3.14%
3/8/2001	204.98	1.29%
3/9/2001	202.73	-1.10%
3/12/2001	195.73	-3.51%
3/13/2001	192.41	-1.71%
3/14/2001	186.70	-3.01%
3/15/2001	183.65	-1.65%
3/16/2001	182.80	-0.46%
3/19/2001	188.17	2.90%
3/20/2001	185.76	-1.29%
3/21/2001	182.06	-2.01%
3/22/2001	175.47	-3.69%
3/23/2001	177.30	1.04%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
3/26/2001	180.67	1.89%
3/27/2001	183.11	1.34%
3/28/2001	181.49	-0.89%
3/29/2001	180.56	-0.51%
3/30/2001	179.17	-0.77%
4/2/2001	181.44	1.26%
4/3/2001	177.32	-2.29%
4/4/2001	182.27	2.75%
4/5/2001	189.24	3.75%
4/6/2001	185.84	-1.81%
4/9/2001	188.29	1.31%
4/10/2001	196.03	4.03%
4/11/2001	192.40	-1.87%
4/12/2001	193.72	0.69%
4/16/2001	194.08	0.18%
4/17/2001	193.98	-0.05%
4/18/2001	201.09	3.60%
4/19/2001	197.92	-1.59%
4/20/2001	194.81	-1.59%
4/23/2001	192.32	-1.28%
4/24/2001	193.84	0.79%
4/25/2001	192.53	-0.68%
4/26/2001	197.73	2.66%
4/27/2001	198.10	0.19%
4/30/2001	194.32	-1.93%
5/1/2001	195.27	0.49%
5/2/2001	198.11	1.45%
5/3/2001	197.37	-0.37%
5/4/2001	201.75	2.19%
5/7/2001	199.62	-1.06%
5/8/2001	201.87	1.12%
5/9/2001	202.53	0.33%
5/10/2001	206.25	1.82%
5/11/2001	203.87	-1.16%
5/14/2001	206.19	1.13%
5/15/2001	206.55	0.17%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
5/16/2001	215.97	4.46%
5/17/2001	217.77	0.83%
5/18/2001	214.76	-1.39%
5/21/2001	215.52	0.35%
5/22/2001	213.65	-0.87%
5/23/2001	208.63	-2.38%
5/24/2001	202.50	-2.98%
5/25/2001	202.24	-0.13%
5/29/2001	204.86	1.29%
5/30/2001	201.10	-1.85%
5/31/2001	203.50	1.19%
6/1/2001	202.27	-0.61%
6/4/2001	205.05	1.36%
6/5/2001	205.34	0.14%
6/6/2001	204.70	-0.31%
6/7/2001	206.41	0.83%
6/8/2001	205.18	-0.59%
6/11/2001	203.86	-0.65%
6/12/2001	202.93	-0.46%
6/13/2001	203.44	0.25%
6/14/2001	198.62	-2.40%
6/15/2001	197.16	-0.74%
6/18/2001	197.79	0.32%
6/19/2001	200.10	1.16%
6/20/2001	201.78	0.84%
6/21/2001	200.57	-0.60%
6/22/2001	195.55	-2.54%
6/25/2001	193.35	-1.13%
6/26/2001	195.42	1.06%
6/27/2001	197.02	0.82%
6/28/2001	197.44	0.22%
6/29/2001	198.71	0.64%
7/2/2001	200.99	1.14%
7/3/2001	198.54	-1.22%
7/5/2001	199.00	0.23%
7/6/2001	195.75	-1.65%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
7/9/2001	197.64	0.96%
7/10/2001	196.29	-0.69%
7/11/2001	195.04	-0.64%
7/12/2001	197.44	1.22%
7/13/2001	196.70	-0.38%
7/16/2001	194.82	-0.96%
7/17/2001	194.62	-0.10%
7/18/2001	197.98	1.72%
7/19/2001	200.82	1.42%
7/20/2001	198.49	-1.17%
7/23/2001	193.69	-2.45%
7/24/2001	188.43	-2.75%
7/25/2001	191.82	1.78%
7/26/2001	192.62	0.41%
7/27/2001	189.75	-1.50%
7/30/2001	189.18	-0.30%
7/31/2001	193.76	2.39%
8/1/2001	191.83	-1.00%
8/2/2001	194.49	1.38%
8/3/2001	194.47	-0.01%
8/6/2001	193.80	-0.34%
8/7/2001	192.76	-0.54%
8/8/2001	189.01	-1.96%
8/9/2001	188.50	-0.27%
8/10/2001	191.58	1.62%
8/13/2001	191.59	0.00%
8/14/2001	191.48	-0.05%
8/15/2001	191.35	-0.07%
8/16/2001	188.64	-1.43%
8/17/2001	188.20	-0.24%
8/20/2001	187.65	-0.29%
8/21/2001	189.02	0.73%
8/22/2001	189.56	0.28%
8/23/2001	189.92	0.19%
8/24/2001	194.74	2.51%
8/27/2001	194.99	0.13%

Exhibit-10

S&P Chemicals Index Levels and Returns

Date	Chemicals Index Level	Chemicals Index Logarithmic Return
8/28/2001	192.08	-1.50%
8/29/2001	190.40	-0.88%
8/30/2001	188.38	-1.07%
8/31/2001	190.53	1.14%
9/4/2001	192.68	1.12%
9/5/2001	191.95	-0.38%
9/6/2001	189.63	-1.21%
9/7/2001	184.59	-2.70%
9/10/2001	182.14	-1.34%
9/17/2001	164.43	-10.23%
9/18/2001	166.10	1.01%
9/19/2001	163.21	-1.76%
9/20/2001	157.43	-3.61%
9/21/2001	154.51	-1.87%
9/24/2001	165.35	6.78%
9/25/2001	165.93	0.35%
9/26/2001	165.13	-0.49%
9/27/2001	167.95	1.70%
9/28/2001	174.24	3.68%
10/1/2001	173.41	-0.48%
10/2/2001	173.99	0.33%
10/3/2001	175.76	1.01%
10/4/2001	174.76	-0.57%
10/5/2001	175.90	0.65%
10/8/2001	173.30	-1.49%
10/9/2001	174.72	0.82%
10/10/2001	179.97	2.96%
10/11/2001	187.83	4.28%
10/12/2001	185.64	-1.17%
10/15/2001	183.95	-0.92%
10/16/2001	185.36	0.76%
10/17/2001	182.31	-1.66%
10/18/2001	182.37	0.03%

Source: Capital IQ

Exhibit-11
Pharmacia Stock Regression Results

Estimation Period: 19 October 2000 through 18 October 2001

Regression Statistics		
Multiple R	0.612	
R Square	0.375	
Adjusted R Square	0.351	
Standard Error	1.71%	
Observations	248	
F-Statistic	15.85	
F-Statistic Significance Level	~0.00%	

	Coefficients	Standard Error	<i>t</i> - statistic
Intercept	-0.07%	0.11%	-0.659
Market Index	0.015	0.088	0.172
Pharmaceutical Index	0.849	0.081	10.483
Chemicals Index	0.053	0.067	0.790
6 February 2001	-0.45%	1.72%	-0.261
7 February 2001	-3.62%	1.72%	-2.104
8 February 2001	-5.94%	1.72%	-3.452
6 August 2001	0.44%	1.72%	0.259
7 August 2001	2.12%	1.72%	1.234
8 August 2001	-0.64%	1.72%	-0.371

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 181 of 550 PageID: 7815

Exhibit-12
Pharmacia Stock Event Study Results

		PHA Closing		Market	Pharma	Chemicals						
		Stock Price	PHA	Index	Index	Index	PHA	PHA				Dollar
	PHA Closing	on Previous	Logarithmic	Logarithmic	Logarithmic	Logarithmic	Explained	Residual			Statistically	Residual
Date	Stock Price	Trading Day	Return	Return	Return	Return	Return	Return	t-statistic	p-value	Significant	Return
6 February 2001	\$57.65	\$58.28	-1.09%	0.05%	-0.62%	-0.80%	-0.64%	-0.45%	-0.26	0.7933	No	(\$0.26)
7 February 2001	\$56.13	\$57.65	-2.67%	-0.88%	1.19%	0.55%	0.95%	-3.62%	-2.11	0.0355	Yes	(\$2.05)
8 February 2001	\$53.00	\$56.13	-5.74%	-0.65%	0.43%	-1.58%	0.20%	-5.94%	-3.47	0.0006	Yes	(\$3.24)
3-Day			-9.50%	-1.48%	1.00%	-1.83%	0.51%	-10.01%	-3.37	0.0009	Yes	(\$5.55)
6 August 2001	\$44.00	\$44.00	0.00%	-1.11%	-0.40%	-0.34%	-0.44%	0.44%	0.26	0.7954	No	\$0.20
7 August 2001	\$45.10	\$44.00	2.47%	0.22%	0.53%	-0.54%	0.35%	2.12%	1.24	0.2170	No	\$0.94
8 August 2001	\$44.32	\$45.10	-1.74%	-1.69%	-1.06%	-1.96%	-1.11%	-0.64%	-0.37	0.7095	No	(\$0.29)
3-Day			0.72%	-2.57%	-0.94%	-2.85%	-1.20%	1.93%	0.65	0.5168	No	\$0.85

Exhibit-13

Inflation Ribbon

Dates	Inflation			
17 April 2000 - 6 February 2001	\$5.92			
6 February 2001	\$5.53			
7 February 2001	\$3.39			
8 February 2001* - 2 November 2001	\$0.00			
•				

Note: [*] As of Market Close

Exhibit-14 New York Stock Exchange Specialist Participation Rates

April 2000 through November 2001

Date	NYSE Specialist Participation Rate
April 2000	14.8%
May 2000	14.3%
June 2000	13.4%
July 2000	14.0%
August 2000	13.8%
September 2000	13.2%
October 2000	13.5%
November 2000	13.5%
December 2000	13.2%
January 2001	13.3%
February 2001	15.5%
March 2001	15.4%
April 2001	15.3%
May 2001	15.2%
June 2001	15.0%
July 2001	15.4%
August 2001	15.9%
September 2001	13.9%
October 2001	15.8%
November 2001	15.4%

Source: NYSE Technologies Market Data

[http://www.nyxdata.com/Data-Products/Facts-and-Figures]

Exhibit-15 Pharmacia Short Interest

April 2000 through November 2001

Date	Short Interest
4/14/2000	17,960,007
5/15/2000	11,920,988
6/15/2000	10,693,712
7/14/2000	11,690,459
8/15/2000	11,481,697
9/15/2000	12,248,375
10/13/2000	11,723,874
11/15/2000	13,239,407
12/15/2000	13,266,336
1/12/2001	13,236,718
2/15/2001	11,469,643
3/15/2001	12,362,266
4/12/2001	14,117,564
5/15/2001	10,245,493
6/15/2001	11,098,435
7/13/2001	14,029,817
8/15/2001	16,481,198
9/10/2001	14,219,380
10/15/2001	11,198,438
11/15/2001	15,933,075
	, ,

Source: Bloomberg

Exhibit-16
Shares Held by Institutions During the Class Period

	As of the Quarter Ended								
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001	
1838 Investment Advisors	2,912,532.9	394,207.1	161,549.3	110,455.0	69,344.3	48,775.0	42,672.1	40,917.1	
3Bridge Capital LLC	_	-	´-	-	-	-	223,884.3	229,859.3	
3I Investments PLC	-	-	-	-	-	-	-	45,635.7	
A I M Management Group Inc.	2,690,400.0	2,749,970.0	4,074,270.0	7,140,070.0	9,083,235.7	6,447,940.0	4,517,654.3	2,851,284.3	
Aberdeen Asset Management PLC	-	-	283,700.0	374,900.0	338,300.0	33,300.0	-	325,400.0	
ABN AMRO Asset Management Holdings, Inc.	-	-	_	-	37,850.7	26,779.3	20,179.3	10,279.3	
Abner, Herrman & Brock, Inc.	54,082.9	88,750.0	106,964.3	104,507.9	104,780.7	102,045.7	103,470.0	119,564.3	
Acadia Trust NA	10,300.0	10,657.1	10,569.3	10,469.3	9,394.3	10,644.3	10,644.3	11,019.3	
Acadian Asset Management	-	-	2,200.0	-	-	-	-	-	
Adage Capital Partners Gp, L.L.C.	-	-	-	-	-	-	-	940,310.0	
Adams Express Company	310,000.0	368,900.0	368,900.0	368,900.0	368,900.0	368,900.0	368,900.0	368,900.0	
Adams, Harkness & Hill, Inc.	-	2,600.0	2,022.1	-	-	-	-	-	
Advanced Investment Management LP	10,870.0	10,869.3	34,647.1	34,647.1	15,302.9	5,484.3	5,484.3	-	
Advantus Capital Management	50,002.1	541,642.9	756,850.7	871,152.1	983,410.7	234,430.0	334,067.9	353,375.0	
Advest Bank And Trust Company	-	-	14,079.3	-	14,119.3	15,049.3	14,034.3	15,717.9	
Advest Group, Inc. (The)	17,239.3	15,687.1	14,837.1	15,582.1	15,932.1	15,155.0	13,450.7	20,547.1	
Advisory Research, Inc.	3,935.0	-	-	-	-	27,210.0	27,520.7	27,317.9	
Aeltus Investment Management Inc.	753,219.3	1,857,482.9	3,521,385.7	3,937,937.1	900,627.1	918,575.0	2,496,912.1	1,302,440.0	
Agf Investments Inc.	-	-	-	-	-	79,300.0	81,300.0	3,500.0	
Albion Financial Group	-	-	-	100.0	100.0	100.0	100.0	100.0	
Alger (Fred) Management Inc	-	-	-	970,300.0	881,860.0	-	-	-	
Alleghany Corp	18,167.9	19,694.3	25,097.9	33,950.7	-	-	-	-	
Allegiant Investment Counselors	-	-	-	116,312.1	116,200.7	103,800.7	101,664.3	114,564.3	
Allen Holding Inc.	-	190,700.0	353,000.0	353,000.0	-	-	-	-	
Allianz Dresdner Asset Management of America, Inc.	27,068,259.3	19,105,347.1	4,155,455.7	3,776,135.0	3,910,395.0	4,035,872.1	1,880,427.1	1,369,002.1	
Allianz of America	-	-	-	-	-	1,306,000.0	1,252,700.0	1,284,600.0	
Allied Irish Banks, P.L.C.	291,525.0	284,795.7	272,207.1	270,910.7	201,367.1	215,930.7	212,562.9	234,577.9	
Allstate Insurance Co	163,000.0	-	-	195,152.9	243,752.9	110,930.7	445,830.7	649,630.7	
Allstate Life Insurance Co	11,700.0	-	-	14,615.7	14,715.7	7,689.3	15,589.3	-	
Allstate Pension Plan	25,800.0	-	-	36,925.0	26,825.0	-	57,600.0	92,800.0	
Allstate Retirement Plan	74,400.0	-	-	83,057.1	60,857.1	-	137,200.0	221,200.0	
Altrinsic Global Advisors, LLC	-	-	-	-	-	-	-	63,500.0	
Amalgamated Bank of New York	426,522.9	433,142.9	438,842.9	454,942.9	441,642.9	432,042.9	428,242.9	446,242.9	
Amarillo National Bank	-	-	-	-	-	21,159.3	31,842.9	43,565.7	
Amcore Bank, N.A.	19,860.0	26,010.0	25,897.9	25,697.9	15,997.9	15,997.9	15,812.9	14,959.3	
American Century Investment Management Inc.	249,900.0	215,600.0	1,447,900.0	11,401,100.0	12,718,000.0	12,551,267.9	10,175,097.1	6,185,829.3	
American Express Financial Corp	4,450,987.9	6,641,295.7	10,104,262.9	6,186,967.9	2,363,839.3	4,065,825.0	5,496,302.1	4,831,980.0	
American Fund Advisors, Inc	16,189.3	-	-	-	-	-	-	-	

Exhibit-16
Shares Held by Institutions During the Class Period

	As of the Quarter Ended									
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001		
American International Group, Inc	792,900.0	919,509.3	2,686,380.0	992,087.1	1,406,627.9	1,162,897.9	1,085,277.9	1,867,979.3		
American National Bank & Trust Company	5,000.0	9,395.0	10,227.9	10,227.9	10,227.9	10,227.9	5,000.0	5,000.0		
American Re Asset Management	186,105.7	-	-	-	-	-	-	, <u>-</u>		
Amerisery Trust & Financial Services	23,225.0	22,225.0	-	-	-	-	-	-		
Ameritas Life Insurance Corporation	2,162.9	43,884.3	35,250.0	-	-	-	-	-		
AMI Investment Management, Inc.	-	-	-	-	-	-	-	-		
Amsouth Bancorporation	889,449.3	908,052.1	904,472.1	734,957.9	745,015.7	424,935.0	935,574.3	898,939.3		
Analytic Asset Management, Inc.	-	-	-	-	-	-	500.0	-		
Analytic Investors, LLC	15,057.9	-	-	-	10,815.7	19,157.9	575,254.3	541,495.0		
Anchor Capital Advisors, Inc.	165,317.1	96,385.7	92,417.1	95,530.7	99,072.1	100,760.0	100,282.9	116,979.3		
Appleton Partners, Inc./Ma	19,727.1	22,834.3	14,427.1	21,002.9	21,002.9	19,002.9	8,775.7	8,775.7		
Arcadia Investment Management Corporation	45,564.3	47,789.3	62,560.7	61,882.9	59,635.7	59,584.3	60,730.0	59,057.1		
Arden Group (The)	-	6,970.0	7,370.0	7,370.0	7,165.0	6,570.0	6,570.0	17,855.0		
Area Trust Company	-	-	-	-	-	4,637.9	-	4,637.9		
Argent Capital Management	-	-	15,737.1	-	14,112.1	13,660.0	13,905.7	-		
Argus Management LLC	-	-	-	-	-	-	-	200,000.0		
Ark Asset Management Company, Inc.	396,900.0	-	28,132.9	99,792.1	161,492.1	163,492.1	117,192.1	1,641,359.3		
Arnhold & S. Bleichroeder, Inc.	141,310.0	8,810.0	8,810.0	5,310.0	5,310.0	5,310.0	10,310.0	10,310.0		
Arrowstreet Capital, Limited Partnership	-	-	-	-	-	-	-	9,900.0		
Artisan Partners Limited Partnership	683,200.0	1,789,589.3	2,199,689.3	2,795,889.3	3,910,589.3	-	-	-		
Ashfield & Company, Inc.	10,490.0	14,100.7	19,225.7	19,100.7	38,325.7	20,685.7	20,729.3	18,132.9		
Asset Advisors Corporation	1,780.0	2,582.1	2,455.7	3,035.7	3,035.7	3,035.7	3,035.7	3,035.7		
Asset Management Inc/Md	-	-	-	4,584.3	5,834.3	5,834.3	5,334.3	5,649.3		
Asset Management Partners, Inc.	19,000.0	13,000.0	12,000.0	-	-	-	-	-		
Associated Banc-Corp	19,262.9	19,662.9	16,870.7	22,115.0	24,375.0	25,005.7	28,255.7	29,772.9		
Atalanta/Sosnoff Capital LLC	-	-	-	-	30,000.0	-	-	-		
Atlanta Capital Management Company LLC	-	-	-	-	-	-	-	2,175.0		
Atlantic Trust Company National Association	74,789.3	50,772.1	45,470.7	39,150.0	34,494.3	863,805.7	894,742.9	197,865.0		
Avery Capital Management, L.L.C.	-	18,500.0	-	18,500.0	18,500.0	18,500.0	18,500.0	18,500.0		
Aviva PLC	-	-	-	-	887,980.7	1,616,450.7	1,676,085.0	1,471,022.9		
AXA	13,599,129.3	17,961,387.1	17,646,157.9	43,340,449.3	92,891,760.7	107,105,530.7	65,344,522.9	38,632,709.3		
Axe-Houghton Associates, Inc.	142,535.0	139,535.0	137,035.0	137,035.0	137,035.0	137,035.0	137,035.0	164,635.0		
Ayco Company, LP(The)	25,697.1	31,812.1	30,102.9	20,742.9	21,330.0	20,712.9	20,437.9	20,532.9		
Babson Capital Management LLC	3,363,800.7	3,075,177.9	2,955,710.7	2,488,040.7	440,270.7	386,042.9	389,059.3	361,864.3		
Babson-United Investment Advisors, Inc.	-	-	-	-	4,144.3	-	-	-		
Back Bay Advisors, L.P.	19,300.0	14,337.1	14,337.1	14,337.1	14,337.1	-	-	-		
Bahl & Gaynor, Inc.	8,810.0	14,977.9	-	10,377.9	9,377.9	8,377.9	8,377.9	6,877.9		
Baird (Robert W.) & Company, Inc.	16,630.0	17,070.0	15,037.1	10,504.3	7,714.3	7,517.1	4,937.1	-		

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Baker Investment Group, LLC	_	-	_	_	5,000.0	-	_	-
Baldwin Brothers, Inc.	6,255.0	8,900.0	5,140.0	5,640.0	5,640.0	5,640.0	5,492.1	5,385.0
Bancorpsouth, Inc.	23,740.0	22,040.0	22,240.0	22,240.0	20,090.0	-	-	-
Bank Julius Baer & Company, New York Branch	4,005.7	4,965.7	4,965.7	4,965.7	4,965.7	10,665.7	7,080.7	5,580.7
Bank of America Corporation	5,856,169.3	673,575.0	708,090.0	895,220.7	971,700.0	9,722,555.7	5,846,795.7	6,359,430.7
Bank of Hawaii	32,450.0	32,380.7	31,655.7	30,365.7	27,855.7	28,205.7	27,892.9	26,277.1
Bank of New York Co	1,680,187.9	1,657,267.9	1,294,364.3	1,253,582.1	1,221,990.0	1,158,385.0	1,152,747.1	1,170,352.1
Bank of New York Trust Company of Florida, N.A.	7,719.3	7,250.0	6,650.0	6,550.0	7,000.0	6,500.0	6,500.0	5,500.0
Bank of Oklahoma, N.A.	13,435.0	-	-	-	-	-	-	-
Bank of The West	9,150.0	10,985.7	10,985.7	10,772.1	10,172.1	10,172.1	10,472.1	10,472.1
Bank One Corporation	3,428,535.7	760,334.3	5,094,034.3	2,643,282.1	2,522,692.9	2,646,592.1	3,295,267.9	3,597,092.1
Bankers Trust Company (Iowa)	-	-	-	3,935.0	-	-	-	-
Bankmont Financial Corp.	548,905.0	-	555,362.1	585,492.9	667,492.9	663,487.9	1,052,347.1	698,942.1
Banknorth Investment Management Group	12,795.0	74,837.1	71,052.1	69,014.3	65,444.3	62,250.0	59,737.9	50,717.1
Barclays Bank PLC	31,923,520.0	37,882,657.9	37,859,845.7	38,138,292.1	38,805,485.0	40,721,334.3	41,502,545.7	45,921,295.7
Baring Asset Management, Inc.	-	-	-	-	-	-	5,690.0	13,790.0
Barrett Associates, Inc.	7,445.7	24,135.0	23,842.9	23,842.9	23,900.7	-	-	-
Barrow, Hanley Mewhinney & Strauss, Inc.	1,476,067.9	1,354,732.9	971,715.7	549,115.7	547,274.3	548,475.0	553,575.0	546,765.0
BBT Fund, LP	-	-	-	-	-	57,300.0	55,600.0	41,000.0
Beach Investment Counsel, Inc./PA	19,000.0	19,000.0	-	-	-	-	-	-
Beacon Fiduciary Advisors	4,370.0	4,870.0	6,870.0	7,970.0	8,315.0	8,315.0	11,552.1	13,552.1
Beacon Investment Company	-	-	-	4,795.0	4,795.0	4,795.0	-	-
Beacon Trust Company	23,017.1	22,667.1	22,332.9	22,417.1	22,242.1	20,900.0	20,900.0	20,900.0
Bear Stearns & Company	1,006,862.1	1,262,992.1	1,280,075.7	1,392,060.7	1,284,455.0	1,397,217.1	1,366,280.0	1,264,375.0
Bear Stearns Asset Management, Inc.	-	654.3	654.3	354.3	-	-	-	-
Beck, Mack & Oliver	7,950.0	3,950.0	-	-	-	-	-	-
Becker Capital Management Inc.	12,000.0	12,000.0	12,000.0	10,000.0	8,642.9	8,142.9	8,142.9	8,392.9
Beese, Fulmer & Pincoe, Inc.	50,802.1	54,874.3	54,949.3	54,422.9	54,672.9	47,195.0	48,112.1	48,837.1
Bel Air Investment Advisors LLC	-	5,015.7	3,815.7	5,015.7	-	-	-	-
Bennicas (Georgia) dba Bennicas And Associates	8,700.0	8,700.0	9,057.1	9,057.1	9,057.1	9,057.1	9,057.1	8,700.0
Berkeley Capital Management	640.0	200.0	375.0	717.1	375.0	494.3	460.0	390.7
Bessemer Group, Incorporated	263,170.0	74,140.7	67,975.0	61,480.0	55,805.0	65,652.9	77,737.9	104,545.0
Beta Management Ltd	24,500.0	-	-	47,300.0	46,800.0	-	-	-
Bidwell (C.M.) & Associates, Ltd.	-	43,490.0	-	-	-	-	-	-
Birinyi Associates Inc.	5,550.0	5,550.0	5,550.0	5,800.0	7,100.0	-	-	-
Blackhill Capital, Inc.	47,600.0	84,400.0	84,400.0	82,400.0	-	72,400.0	106,700.0	70,267.9
Blackrock Inc.	576,400.0	730,677.9	812,814.3	325,064.3	302,064.3	218,024.3	-	-
Blair (William) & Company, L.L.C.	1,318,105.0	1,367,432.1	1,407,752.9	1,357,860.0	1,060,739.3	259,674.3	221,102.9	202,345.7

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Blair, Christopher, R.	24,600.0	-	-	-	-	7,500.0	6,900.0	-
Blue Ridge Capital, L.L.C.	-	-	-	-	-	-	500,000.0	680,000.0
BNP Paribas Arbitrage, Sa	-	-	-	-	-	-	-	135,322.9
BNP Paribas Asset Management, Sas	-	104,925.0	150,347.9	133,935.0	137,935.0	146,080.0	147,400.0	353,520.7
BNP Paribas Equity Strategies Snc	190,990.0	202,400.7	278,917.1	331,452.9	461,459.3	471,015.0	444,785.7	249,879.3
Boone County National Bank	8,795.0	9,907.1	16,182.1	20,682.1	20,707.1	21,457.1	21,917.1	23,087.9
Boone National Svgs & Ln Assoc-dba Edward Jones Tr Co	14,619.3	24,584.3	24,839.3	20,289.3	18,624.3	17,952.1	17,492.1	15,642.1
Boston Advisors, Inc.	511,342.9	355,900.0	321,000.0	208,400.0	172,600.0	136,100.0	177,600.0	167,500.0
Boston Family Office, LLC	15,395.0	16,359.3	16,859.3	21,209.3	21,709.3	23,784.3	25,734.3	17,859.3
Boston Partners-Asset Management, L.P.	-	-	-	-	-	-	-	403,955.0
Bourgeon Capital Management LLC	-	-	-	10,710.0	10,710.0	12,760.0	15,360.0	7,110.0
Bourne Stenstrom Lent Asset Management	-	-	4,100.0	-	4,100.0	-	-	-
Bowman Financial Management Co Inc.	300.0	-	-	-	-	-	-	-
Boyd Watterson Asset Management LLC	-	-	-	7,020.0	-	-	-	-
Boys, Arnold & Company, Inc.	4,500.0	6,607.9	6,922.1	9,564.3	13,429.3	13,830.0	14,137.1	10,582.1
BP P.L.C.	285,000.0	327,750.0	327,750.0	202,750.0	252,750.0	262,750.0	262,750.0	131,150.0
BPI Global Asset Management LLP	-	-	-	63,700.0	-	163,900.0	167,900.0	114,700.0
Bradley, Foster And Sargent, Inc.	14,650.0	16,267.9	16,435.0	18,722.1	23,749.3	24,349.3	17,527.9	11,767.9
Branch Banking & Trust Company (South Carolina)	11,190.7	9,220.0	9,112.9	18,225.7	19,482.1	18,612.1	9,305.7	-
Branch Banking And Trust Company (North Carolina)	64,262.9	91,667.1	106,709.3	160,080.7	150,464.3	125,280.0	65,940.7	56,570.7
Brandywine Trust Company	-	-	-	68,635.7	68,635.7	68,635.7	68,635.7	68,635.7
Brencourt Advisors, LLC	-	-	-	-	-	-	-	4,750.0
Brenton Investments	11,440.0	10,802.1	9,162.1	8,425.7	8,375.7	-	-	-
Bricoleur Capital Management, LLC	-	-	-	-	-	106,000.0	130,500.0	-
Bridger Management LLC	-	-	-	-	-	-	-	119,400.0
Bridges Investment Counsel	29,425.0	30,220.0	31,220.0	31,220.0	30,520.0	30,470.0	30,170.0	29,270.0
Broadmark Asset Management LLC	-	-	-	-	-	-	8,000.0	-
Brown (Alex.) Investment Management, LLC	81,550.0	81,550.0	81,550.0	81,550.0	81,550.0	171,550.0	171,550.0	151,550.0
Brown Brothers Harriman & Co	1,497,622.1	1,497,622.1	1,538,867.9	1,616,555.7	1,607,392.9	1,643,345.0	-	1,425,527.9
Brown Investment Advisory & Trust Company	5,730.0	6,257.1	6,257.1	21,997.1	21,997.1	19,407.1	-	442,392.1
Bryn Mawr Trust Company	20,215.0	22,337.1	21,854.3	21,725.7	21,725.7	21,725.7	21,859.3	21,450.0
Bufka & Rodgers, LLC	4,400.0	-	-	-	-	-	7,075.0	7,895.7
Bunker Capital, L.L.C.	-	-	21,487.9	24,087.9	21,387.9	20,087.9	10,572.9	-
Burke & Herbert Bank And Trust Company	10,300.0	11,837.9	11,837.9	9,037.9	6,837.9	6,837.9	6,837.9	6,837.9
Burney Company (The)	-	-	7,065.7	5,919.3	5,267.1	-	-	-
Burnham Asset Management Corporation	4,600.0	-	-	-	-	-	-	-
Burnham Sullivan & Associates	12,000.0	-	13,050.0	12,750.0	11,550.0	11,000.0	11,300.0	11,600.0
Burridge Group LLC (The)	63,704.3	85,027.9	107,142.9	393,617.1	438,932.9	453,337.1	616,910.0	748,249.3

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 6/30/2000 12/31/2001 **Institution Name** 3/31/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Bush (J.) & Company, Incorporated 6,000.0 6,000.0 5,000.0 96,875.0 136,600.0 Bush O'Donnell Investment Advisors Inc 12,160.0 12,160.0 12,160.0 Butler Wick Asset Management 22,415.0 16,720.7 15,950.7 15,950.7 15,950.7 Cadinha & Company, Inc. California State Teachers Retirement System 3,559,410.0 3,444,405.0 3,483,240.0 3,597,360.0 3,693,560.0 3,569,760.0 3,421,090.0 3,773,254.3 California, University of-Regents 7,520,542.1 8,461,514.3 8,461,514.3 8,462,445.7 8,462,445.7 8,564,545.7 8,564,545.7 9,234,545.7 Calpers (California-Public Employees Retirement System) 2,795,000.0 827,699.3 857,399.3 858,699.3 4,983,499.3 4,873,299.3 4,737,299.3 4,981,099.3 Camden Asset Management, L.P. 100,000.0 Campbell, Newman Asset Management, Inc. 26,705.7 26,704.3 26,704.3 26,704.3 26,704.3 26,704.3 20,704.3 21,204.3 Canada Life Assurance Company _ 50,700.0 39,800.0 Canandaigua National Bank & Trust Corporation 5,000.0 6,207.1 6,207.1 6,207.1 _ _ Cape Ann Savings Bank 9,115.0 9,115.0 9,115.0 Cape Cod Bank & Trust Company 3,450.0 3,450.0 _ _ Capital City Trust Company 1,450.0 450.0 450.0 450.0 550.0 322.9 200.0 Capital Guardian Trust Company _ 4.830.0 14,430.0 3,945.0 6,945.0 13,475.7 13,715.7 13,555.7 Capital International, S.A. 11,700.0 5,520.0 Capital Investment Services of America, Inc. Capital Management Associates Inc./FL 4.530.0 5,067.1 5,087.1 5.027.1 5.027.1 1.695.0 1.730.0 1,705.0 Capital Management Corporation 7,350.0 6,350.0 6,350.0 7,050.0 23,750.0 17,010.0 18,635.0 17,500.7 Capital Research And Management Company 75,088,650.0 84,003,297.9 74,300,095.0 58,990,295.0 55,690,295.0 55,887,595.0 59,803,595.0 69,982,657.9 Capital West Asset Management LLC 47,350.0 1,080.0 _ _ Capstone Asset Management Company 126,280.0 138,209.3 144,607.9 147,237.9 149,297.9 152,577.9 157,227.9 158,552.9 Carlson (DL) Investment Group, Inc. 12,242.9 11,792.9 12,242.9 11,792.9 11,600.0 10,200.0 6,400.0 7,000.0 Carlson Capital. L.P. 492,410.0 492,282.9 492,282.9 476,105.0 476,105.0 165,000.0 120,000.0 Carret Asset Management 123,850.0 137,767.9 142,437.1 8,352.1 121,190.0 46,887.1 44,235.7 53,052.9 Castleark Management, L.L.C. 122,000.0 -Catalyst Investment Management LLC 58,269.3 _ _ _ Catawba Capital Management 7,340.0 6,205.0 5,615.0 5,615.0 4,715.0 4,765.0 4,765.0 Caterpillar Investment Management Ltd 34,084.3 33,384.3 33,884.3 33,884.3 33,484.3 33,884.3 33,684.3 Caxton Associates, L.L.C. 240,000.0 166,800.0 Cazenove Fund Management Ltd _ 302,327.9 325,262.9 315,177.9 351,244.3 **CCM Partners** 14,404.3 15,670.7 15,670.7 15,670.7 15,670.7 15,670.7 16,870.7 16,870.7 CDC Investment Management Corp 28,385.0 25,885.0 14,585.0 27,000.0 33,400.0 Central Bank & Trust Company Central Trust Bank/Mo 3,840.0 4,152.9 4,332.9 4,642.9 5,142.9 5,642.9 4,895.0 4,895.0 Centura Bank 28,400.0 28,225.0 28,225.0 28,225.0 23,225.0 22,525.0 CGU Asset Management Inc 383,500.0 456,365.0 473,865.0 362,500.0 17,500.0 317,500.0 Chapman Capital Management, Inc. 5,500.0 3,700.0 30,100.0 23,300.0 26,200.0 21,000.0

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Charter Oak Partners	-	-	_	_	-	-	600,000.0	600,000.0
Chartwell Investment Partners	-	35,090.0	10,590.0	-	1,938,600.0	1,324,825.0	2,005,590.7	2,456,750.7
Chemical Bank And Trust Company	9,317.1	13,584.3	13,584.3	13,484.3	13,484.3	13,484.3	15,855.7	15,747.1
Chesapeake Partners Management Co Inc./MD	218,614.3	-	281,482.9	281,482.9	-	-	-	-
Chevy Chase Bank	-	-	-	61,452.9	62,052.9	466,065.0	915,655.0	453,414.3
Chicago Asset Management Company	780,545.0	497,062.1	433,730.0	428,987.1	-	-	-	-
Chicago Equity Partners, LLC	-	6,450.0	5,950.0	21,000.0	594,700.0	36,900.0	39,900.0	34,600.0
Chilton Capital Management, L.P.	92,845.0	96,412.9	-	115,802.9	102,677.9	56,385.0	56,832.1	54,570.7
Chilton Investment Co. Inc.	-	-	-	-	-	-	-	2,007,470.0
Chittenden Corporation	28,720.0	29,887.9	31,072.9	30,497.9	36,857.9	27,447.1	24,697.9	24,010.0
Chubb Corporation (The)	-	60,000.0	60,000.0	40,000.0	40,000.0	40,000.0	40,000.0	-
Church Capital Management, Inc.	-	-	-	-	4,135.7	-	-	5,065.0
Churchill Management Corp	-	-	-	3,685.0	-	-	-	-
CIBC World Market Corporation	290,440.7	202,495.7	324,335.0	325,140.7	-	306,410.7	295,514.3	318,720.7
Cigna Corporation	527,719.3	582,197.9	604,649.3	-	-	-	-	-
Citadel Advisors LLC	3,612,500.0	-	-	-	-	336,392.1	287,515.0	-
Citigroup Inc.	17,016,000.0	15,949,859.3	10,524,552.9	11,514,864.3	13,084,069.3	14,709,859.3	15,800,542.1	16,098,984.3
Citizens Bank Wealth Management, N.A.	58,722.1	73,147.9	259,877.9	63,155.7	165,140.0	162,680.0	162,374.3	162,134.3
City Capital Inc.	-	-	-	-	26,709.3	29,304.3	47,440.0	46,710.0
City National Bank, City National Investments	-	30,579.3	10,120.0	9,705.7	11,130.7	11,130.7	12,869.3	11,860.7
Claiborne Capital Management, L.P.	-	-	-	-	-	-	-	150,000.0
Clifford Associates, Inc.	4,100.0	4,000.0	4,000.0	4,000.0	4,000.0	-	-	-
Cna Financial Corporation	-	80,000.0	80,000.0	80,000.0	90,000.0	70,000.0	-	-
Cobblestone Capital Advisors LLC	-	-	3,584.3	4,227.1	4,227.1	-	-	9,565.7
Cogan, John F. Jr., Trustee/Hale And Dorr	9,965.0	7,960.0	7,960.0	7,555.0	2,765.0	2,765.0	2,765.0	2,765.0
Cohen, Klingenstein & Marks Incorporated	2,596,555.0	2,565,877.1	2,478,034.3	2,358,555.0	2,300,335.7	2,235,929.3	2,253,042.1	2,461,270.7
Colonial Management Associates, Inc	50,575.0	52,885.0	54,275.0	36,425.0	-	-	183,800.0	1,349,900.0
Colorado Public Employees Retirement Assn (Pera)	861,600.0	947,092.1	1,153,592.1	939,492.1	896,492.1	870,592.1	941,992.1	853,300.0
Colorado State Bank And Trust	5,500.0	4,800.0	4,800.0	6,180.0	6,180.0	5,150.0	-	5,075.0
Columbia Management Co	370,327.9	4,473,782.9	5,851,354.3	5,047,049.3	5,381,080.0	3,956,305.0	3,513,630.0	2,570,855.0
Columbus Circle Investors	-	373,100.0	1,172,700.0	1,287,375.0	8,085.0	-	-	-
Comerica, Inc.	541,292.1	-	-	-	-	-	-	-
Commerce Bank N.A. (Missouri)	328,950.0	316,415.7	293,150.7	233,977.9	230,370.7	228,422.9	233,107.1	224,562.1
Commerce Bank N.A. (Peoria, Illinois)	8,442.9	8,242.1	8,242.1	8,587.1	8,587.1	8,587.1	1,110.0	1,110.0
Commerce Bank N.A. (Wichita, Kansas)	-	90.0	90.0	-	-	-	-	-
Compass Bank	8,315.0	9,130.7	10,000.7	10,000.7	17,500.7	18,005.7	13,105.0	12,655.0
Concord Investment Company	342,815.0	344,255.7	35,960.0	36,127.1	36,127.1	38,655.0	-	-
Condor Capital Management	32,580.7	5,455.0	-	-	-	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended **Institution Name** 3/31/2000 6/30/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 12/31/2001 Conestoga Capital Advisors, LLC 5,325.7 Connable Office, Inc. (The) 239,505.7 240,005.7 242,002.9 232.047.1 232,247.1 231.985.7 232,485.7 231,760.7 Conning Asset Management Company 93,587.9 216,915.0 172,645.0 190,570.0 132,039.3 134,010.0 132,634.3 130,087.9 Connors Investor Services, Inc. 117,795.0 118,945.7 115,310.7 112,512.1 111,010.7 107,810.0 107,450.0 112,187.9 Conseco Inc. _ 23,810.0 42,730.0 _ Cooke & Bieler, Inc 1,000.0 1,000.0 Coolidge, Francis L. 12,325.0 28,465.0 28,465.0 28,465.0 28,465.0 18,112.9 18,112.9 18,112.9 Copper Mountain Trust Company 60.829.3 43,254.3 16,625.0 10,997.1 Cornercap Investment Counsel, Inc. 10,000.0 Cornerstone Advisors, Inc. 11,900.0 Cornerstone Capital Management, Inc. _ _ 26,880.0 _ Cornish, John M. 37,840.0 40,237.9 40,237.9 40,562.9 40,282.9 40,282.9 79,565.7 37,832.1 Courier Capital Coporation 26,925.0 _ _ 20,512.1 _ _ Crawford Investment Counsel, Inc. 39,187.9 39,575.0 54,575.0 59,627.9 61,925.0 64,812.9 64,812.9 67,112.9 Credit Suisse Asset Management 6,257,465.7 5,598,977.1 5,822,767.1 4,585,989.3 4,530,427.9 4,424,977.9 4,821,445.7 4,348,457.9 Credit Suisse First Boston Corporation 1,457,864.3 1,708,045.7 1,956,115.0 1,300,522.9 1,060,195.7 982,557.9 916,269.3 1,648,630.7 29,000.0 CSI Capital Management Inc. 26,400.0 26,400.0 26,400.0 26,400.0 26,400.0 28,500.0 29,000.0 Cullen/Frost Bankers, Inc 77,734.3 65,147.9 275,640.7 331,592.1 294,374.3 287,864.3 287.345.0 166,087.9 Cutler & Company, LLC 4,000.0 7,504.3 7,504.3 7,504.3 _ _ _ _ Cypress Asset Management, Inc. 27,310.0 55,830.0 62,940.0 67,490.0 79,325.0 76,725.0 59,915.0 19,845.0 D.A. Davidson & Co. _ _ _ _ 6,555.0 Dai-Ichi Life Insurance Company Limited 349,985.0 312,529.3 310,462.1 350,857.9 312,137.9 309,207.1 356,022.9 71,199.3 Dane, Falb, Stone & Company, Inc. 24,514.3 24,395.0 23,680.7 21,267.9 21,267.9 21,267.9 20,910.7 20,910.7 Dassori (F. Davis), Jr. 40,962.9 38,634.3 38,634.3 37,442.1 37,442.1 37,442.1 28,592.1 Davenport & Company LLC/VA 25,227.9 26,124.3 22,845.0 27,340.0 25,995.0 26,642.9 18,994.3 20,385.0 Davidson & Garrard Inc 39,305.7 36,155.0 35,937.1 34,625.7 34,517.9 32,687.9 25,242.9 27,454.3 Davidson Investment Advisors 206,302.1 _ -_ _ _ _ **Davidson Trust Company** 45,099.3 Davidson Trust Company/Pa 6,300.0 6,580.7 6,580.7 6,480.7 6,124.3 6,124.3 5,444.3 5,444.3 Davis Selected Advisers, LP 1,595,000.0 1,619,105.0 1,583,432.1 1,615,809.3 1,580,440.0 1,625,822.1 3,296,772.1 3,469,950.0 Davis, R.M., Inc. 5,960.0 4,800.0 5,000.0 5,315.0 5,309.3 _ _ _ DCF Capital, L.L.C. 524,655.0 277,315.0 412,315.0 207,315.0 12,315.0 12,315.0 125,315.0 De Garmo & Kelleher 4,500.0 4,635.0 4,635.0 4,635.0 4,705.0 4,705.0 6,699.3 7,067.1 Dean (C.H.) & Associates, Inc. 14,652.9 13,030.0 Dearden, Maguire, Weaver & Barrett Inc. 4,670.7 4,270.7 5,790.7 5,855.7 5,357.1 15,282.1 _ Deephaven Capital Management, LLC 39,000.0 44,400.0 Deere & Company 117,647.1 117,647.1 117,647.1 165,047.1 165,047.1 165,047.1 165,047.1 165,047.1 Delaware Capital Management 155,087.9

Exhibit-16
Shares Held by Institutions During the Class Period

					uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Delaware Management Business Trust	2,325,500.0	90,800.0	98,367.1	63,680.7	62,515.0	88,115.0	90,925.0	131,180.0
Deltec Asset Management LLC	-	-	-	-	-	1,250.0	1,250.0	1,250.0
Denver Investment Advisors LLC	12,990.0	37,640.0	45,690.0	46,347.1	50,184.3	58,520.0	52,239.3	74,787.9
Deprince, Race & Zollo, Inc.	158,925.7	-	-	-	-	-	126,100.0	347,900.0
DG Capital Management, Inc.	-	-	-	-	-	-	-	160,000.0
Diamond Capital Management Inc.	-	-	-	-	-	-	-	-
Dimensional Fund Advisors LP	-	338,100.0	341,600.0	346,500.0	346,200.0	363,500.0	361,900.0	392,582.9
Disciplined Investment Advisors	92,500.7	108,632.1	126,292.1	33,519.3	300.0	-	-	-
Dixon, Hubard & Feinour & Brown Inc.	11,125.0	11,860.0	11,860.0	11,560.0	11,560.0	10,760.0	8,575.0	7,250.0
Dlibj Asset Management Co., Ltd.	-	147,614.3	152,415.0	158,590.7	196,215.0	194,362.1	186,652.1	99,257.1
DNB Nor Asset Management (Us), Inc.	-	-	-	-	1,111,060.0	1,134,190.0	685,600.0	717,300.0
Dodge & Cox Inc	7,290,590.7	8,933,967.1	6,314,305.7	6,256,969.3	6,109,872.1	6,441,927.9	8,422,510.0	9,005,642.1
Doerge & Smith Private Advisory, LLC	-	-	-	-	-	-	900.0	1,405.0
Doolittle (William G) Investment Counselor	-	4,730.7	4,730.7	4,730.7	4,730.7	4,730.7	-	-
Dowling & Yahnke Inc.	-	-	-	15,132.1	15,269.3	19,584.3	20,557.9	19,925.7
Dreman Value Management, L.L.C.	8,972.9	8,972.1	8,972.1	8,972.1	8,972.1	8,972.1	8,972.1	19,472.1
Dresdner Bank AG	316,947.1	414,010.7	652,092.9	1,370,567.1	1,194,809.3	1,211,300.7	1,793,480.0	1,877,190.7
Dresdner Rcm Global Investors LLC	-	2,650,797.9	5,435,790.7	8,063,197.1	9,848,222.1	10,730,195.7	11,519,910.0	12,583,952.1
Duff & Phelps Investment Management Company	-	5,925.0	6,310.0	6,310.0	6,230.0	6,660.0	6,930.0	6,930.0
Duncan-Hurst Capital Management	-	230.0	-	-	-	-	-	-
Duncker, Streett & Co., Inc.	-	11,640.0	11,640.0	11,640.0	-	7,000.0	7,000.0	-
Dupont Capital Management	-	-	58,500.0	17,200.0	29,000.0	53,900.0	605,700.0	927,700.0
Duquesne Capital Management, LLC	-	-	400,000.0	100,000.0	-	-	-	-
Eagle Asset Management, Inc.	334,335.7	337,800.0	590,397.9	618,575.0	741,524.3	649,144.3	1,083,192.9	990,137.1
Eastern Bank & Trust Company	-	-	-	3,700.0	-	-	-	5,092.1
Eaton Vance Management	2,523,594.3	2,525,455.0	2,591,335.0	2,613,402.9	2,611,727.9	2,604,867.9	2,604,867.9	3,396,549.3
Edgewood Management Company	4,000.0	5,475.0	5,475.0	5,475.0	5,475.0	5,475.0	5,475.0	5,725.0
Edinburgh Fund Managers PLC	102,912.9	101,309.3	264,984.3	290,499.3	300,189.3	298,359.3	300,859.3	295,945.0
Edwards, A.G., Inc.	15,994.3	67,390.0	90,147.9	85,850.0	77,544.3	81,032.9	84,347.1	84,322.9
EGM Capital	-	-	-	-	-	28,500.0	29,000.0	29,000.0
Ehrman (William)	28,760.7	21,225.0	21,225.0	-	25,000.0	-	-	-
Elias Asset Management Inc.	3,535.0	-	-	-	-	-	-	-
Elliott & Associates, Inc	41,500.0	41,017.1	36,200.0	36,270.7	34,270.7	33,070.7	-	-
Employees Retirement System of Texas	-	458,102.9	813,702.9	1,368,202.9	1,559,500.0	1,185,500.0	1,182,100.0	1,266,100.0
Endex Capital Management LLC	17,612.1	17,562.1	17,612.1	11,190.7	11,190.7	11,190.7	11,190.7	-
Engebretson Capital Management, Inc.	-	-	-	-	-	-	-	385.0
Engemann Asset Management	2,019,994.3	2,376,282.1	3,929,904.3	3,967,195.7	4,153,985.0	2,510,337.1	2,308,702.9	2,195,237.9
Entrust Capital Inc.	-	-	4,195.0	4,195.0	4,195.0	4,545.0	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

	As of the Quarter Ended								
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001	
Equinox Capital Management	-	-	_	-	-	_	309,400.0	68,500.0	
Equitrust Investment Management Services, Inc.	-	-	-	-	-	46,577.1	67,105.0	71,872.1	
Essex Investment Management Co Inc	-	-	-	-	-	-	-	-	
Estabrook Capital Managemen LLC	23,697.1	23,797.1	25,585.0	26,457.1	25,487.1	26,289.3	24,305.7	24,370.7	
Eveans, Bash, Magrino & Klein, Inc.	98,817.9	-	95,520.7	74,470.0	67,492.9	62,477.9	88,245.7	83,994.3	
Exxonmobil Investment Management, Inc.	241,695.0	241,195.0	226,805.7	229,790.7	254,102.9	250,202.9	251,582.9	256,325.0	
Fahnestock & Company	9,162.9	8,799.3	9,199.3	14,829.3	14,629.3	8,629.3	38,902.9	-	
Fairfield Research Corp	-	1,014.3	1,004.3	1,004.3	-	-	-	-	
Fairport Asset Management, LLC	-	19,925.0	48,525.0	78,025.0	77,325.0	69,375.0	57,372.9	-	
Family Capitl Fiduciary LLC	-	-	-	-	-	-	2,260.0	2,260.0	
Farallon Capital Management LLC	1,400,184.3	-	830,424.3	730,300.0	730,300.0	-	-	-	
Farrell S1 Investment Management Inc.	_	-	18,700.0	18,700.0	-	-	-	-	
FCA Corporation	-	-	-	-	-	-	-	15,150.0	
Federated Investors, Inc.	2,468,255.0	2,530,412.1	2,630,012.1	2,871,312.1	2,101,622.9	1,894,110.7	1,653,612.1	3,292,270.0	
Ferguson, Wellman, Rudd, Purdy & Van Winkle, Inc	17,015.0	18,829.3	17,820.0	17,620.0	18,829.3	17,140.7	16,595.7	16,695.7	
Fidgeon, Timothy F.	-	-	-	13,920.0	13,920.0	13,920.0	13,720.0	13,720.0	
Fiduciary Asset Management, LLC	11,662.1	8,900.0	112,939.3	20,089.3	18,889.3	24,689.3	24,689.3	137,314.3	
Fiduciary Management Associates Inc	119,000.0	68,950.0	152,325.0	153,825.0	96,155.0	-	-	-	
Fiduciary Services Corporation	15,027.1	16,280.0	15,377.9	15,377.9	14,782.9	14,782.9	14,690.7	14,345.7	
Fiduciary Trust Company (Mass)	101,467.1	101,797.9	105,005.0	103,537.1	103,490.0	104,592.1	104,992.1	104,990.7	
Fifth Third Bancorp	307,495.0	304,194.3	306,857.9	314,835.0	5,544,527.1	4,846,300.0	4,697,647.9	2,719,487.1	
Fifth Third Bank/Mi	4,316,745.7	5,115,725.7	5,114,372.1	5,064,970.0	5,001,425.0	4,292,429.3	4,145,717.1	-	
FIL Ltd	56,340.0	154,310.0	41,532.1	91,340.0	76,485.7	521,085.0	143,200.0	143,200.0	
Financial Counselors, Inc.	5,000.0	5,000.0	5,000.0	5,000.0	7,100.0	7,200.0	7,325.0	7,194.3	
Financial Management Advisors, Inc.	-	-	-	-	-	83,750.0	74,425.0	30,450.0	
First American Trust Company	52,062.9	48,587.9	-	38,410.7	36,335.7	-	-	-	
First Citizens Bank & Trust Company	18,920.0	-	682,245.0	-	627,845.0	666,555.7	934,139.3	311,757.1	
First Financial Bank, N.A.	17,105.7	-	16,855.7	18,030.0	16,910.0	100,007.1	103,862.1	123,862.1	
First Horizon National Corp	47,382.9	46,515.0	58,059.3	77,292.1	115,597.1	147,992.1	191,792.1	168,175.0	
First Interstate Bank	15,315.0	16,840.0	17,365.0	16,547.1	19,822.1	17,897.1	19,847.1	19,790.7	
First Investors Management Company, Inc	150,715.0	141,214.3	141,214.3	219,814.3	232,000.0	-	335,000.0	324,800.0	
First Manhattan Company	-	70,612.1	29,612.1	6,612.1	47,962.1	54,637.9	1,121,942.1	1,131,895.0	
First National Bank of Chester County	-	-	-	-	-	-	-	-	
First National Bank of Omaha	5,945.0	-	7,309.3	7,309.3	7,309.3	6,359.3	55,819.3	10,025.0	
First National Trust Company	-	3,890.0	3,890.0	, -	-	-	-	5,735.0	
First Quadrant L.P.	78,500.0	130,630.0	29,140.0	29,240.0	124,140.0	31,140.0	31,340.0	34,965.0	
First Security Bank	124,815.0	123,635.7	150,694.3	-	-	-	-	-	
First Source Bank	16,484.3	15,760.0	15,860.0	15,310.0	15,310.0	15,037.9	15,037.9	15,037.9	

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
First State Investment Management Uk Ltd	-	-	6,820.0	-	-	-	-	-
First Virginia Bank	-	7,975.0	10,452.9	9,952.9	14,752.9	21,662.9	25,462.9	27,987.9
Firstmerit Bank N.A., Trustee	137,032.9	135,710.7	133,922.1	148,060.7	157,952.1	161,027.9	168,155.7	157,054.3
Fisher Investments, Inc.	16,980.7	16,580.7	16,592.1	19,279.3	15,244.3	15,365.7	15,990.7	15,410.7
Fishman (Jay A.), Ltd.	1,688,647.9	1,706,880.7	1,675,762.1	1,671,485.0	1,660,172.1	1,895,090.0	1,928,129.3	1,907,974.3
Fleetboston Financial Corporation	3,346,872.1	2,745,045.0	3,626,720.7	3,653,542.1	4,490,357.1	4,969,080.7	5,043,495.7	4,880,597.1
Fleiss, Karen M.	-	-	-	20,000.0	-	-	-	-
Florida State Board of Administration	1,427,302.1	1,691,100.7	1,832,100.7	2,359,100.7	2,508,000.7	2,508,500.7	2,533,300.7	3,165,800.7
FMR LLC	2,137,735.0	18,141,742.9	29,225,312.1	30,424,514.3	14,737,792.1	20,990,450.0	17,879,055.0	27,834,129.3
Forbes, J.M. & Company	33,665.7	-	-	-	20,809.3	-	-	-
Forstmann Asset Management LLC	-	-	-	-	-	-	-	50,500.0
Forstmann-Leff Associates LLC	29,750.0	313,655.7	28,440.7	36,440.7	-	-	-	-
Fort Washington Investment Advisors, Inc.	-	-	-	49,700.0	72,025.0	-	20,725.0	22,725.0
Franklin Resources, Inc	6,379,485.7	6,088,554.3	4,412,589.3	4,427,847.1	5,418,739.3	5,689,394.3	10,197,664.3	10,513,045.0
Franklin Street Advisors, Inc.	246,404.3	3,870.0	-	6,440.0	-	-	-	-
Freeman Associates Investment Management, LLC	17,434.3	97,842.9	159,342.9	79,872.1	60,772.1	60,772.1	55,172.1	54,072.1
Fremont Investment Advisors, Inc.	-	23,000.0	29,000.0	35,970.0	32,970.0	40,970.0	34,832.9	32,760.7
Friends Ivory & Sime, Inc.	-	-	94,100.0	647,250.0	815,040.0	-	-	-
Froley, Revy Investment Company Inc	-	-	-	-	-	-	-	98,724.3
Frontier Capital Management Company Inc	-	-	8,505.0	45,205.0	39,805.0	6,400.0	18,600.0	24,200.0
Frye-Louis Capital Management, Inc.	22,197.9	21,679.3	22,110.0	23,867.1	25,780.0	24,325.7	23,740.7	13,840.7
Fulton Breakefield Broenniman, LLC	-	0.7	-	-	-	-	-	-
Fulton Financial Advisors, NA	33,207.9	40,577.1	41,614.3	20,749.3	17,297.1	17,374.3	18,402.9	18,202.9
Fund Asset Management Inc	10,403,915.0	54,817.9	53,307.1	-	-	-	-	-
Furman Selz Capital Management, LLC.	192,600.0	-	-	-	-	-	141,902.9	156,002.1
Gabelli Funds, LLC	2,367,800.0	80,000.0	80,000.0	75,000.0	72,000.0	72,000.0	72,000.0	72,000.0
Gabriel Capital Corp.	-	-	176,865.7	-	187,544.3	276,295.7	284,704.3	-
Galleon Management L.P.	357,000.0	150,000.0	-	500,000.0	-	-	195,000.0	200,000.0
GAM USA, Inc.	79,000.0	-	-	-	-	-	79,000.0	79,000.0
Gamble Jones Investment Counsel	49,940.0	49,065.0	59,432.1	59,315.0	57,627.1	57,227.1	57,035.7	56,972.1
Gamco Investors Inc	213,730.0	-	-	7,457.1	-	-	-	-
Gannett Welsh & Kotler, Inc.	11,000.0	11,000.0	11,000.0	11,297.1	11,297.1	11,297.1	11,297.1	11,297.1
Gardner Lewis Asset Management, Inc.	-	4,132.1	7,232.1	7,232.1	9,032.1	-	-	-
Gardner Russo & Gardner	-	-	-	-	-	200.0	200.0	500.0
Garrison Institutional Asset Management	30,205.0	54,965.0	58,265.7	84,465.7	88,360.7	89,585.7	53,510.7	83,310.7
Garrison, Bradford & Associates, Inc.	4,750.0	4,750.0	4,750.0	4,500.0	-	-	-	-
Gartmore Investment Management, PLC	-	244,972.9	239,944.3	1,778,725.7	626,357.9	310,429.3	441,254.3	454,699.3
Gartmore Mutual Fund Capital Trust	1,348,600.0	787,165.7	803,699.3	1,481,799.3	420,729.3	96,039.3	183,409.3	191,705.7

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Gateway Investment Advisors, Inc.	198,299.3	204,764.3	223,730.0	223,237.9	242,682.1	231,515.7	228,087.9	206,620.0
Geewax, Terker & Company	26,440.0	34,662.1	34,552.1	1,823,155.7	1,278,430.0	805,440.0	205,050.0	-
General Electric Company	1,941,475.7	2,144,840.0	1,845,860.0	1,816,365.7	1,797,642.9	1,809,645.0	2,118,697.1	3,451,019.3
General Motors Investment Management Corporation	305,815.7	363,494.3	192,210.7	192,284.3	193,584.3	192,384.3	116,684.3	33,984.3
General Re-New England Asset Management, Inc.	2,300.0	-	4,100.0	3,690.0	2,490.0	5,890.0	5,890.0	8,712.9
Gilkison Patterson Investment Advisors Inc	18,235.7	18,532.1	18,532.1	18,460.0	18,460.0	18,287.9	18,287.9	21,132.1
Glenmede Trust Company (The)	176,310.0	-	178,480.7	381,812.9	348,132.9	263,975.0	226,209.3	202,647.1
Glens Falls National Bank & Trust Company	7,070.0	6,970.0	7,770.0	7,370.0	6,670.0	5,670.0	5,470.0	-
Glenview Capital Management, LLC	-	-	-	-	-	-	-	705,000.0
Global Strategy Financial Inc.	-	-	-	92,000.0	-	-	-	-
Globeflex Capital, L.P.	-	-	35.0	35.0	3,110.0	-	-	-
Glynn (J.A.) & Co.	11,812.1	11,192.1	11,942.1	-	-	-	-	-
Gofen & Glossberg LLC	78,072.1	73,669.3	72,319.3	69,632.9	70,767.1	69,194.3	66,394.3	66,094.3
Golden Capital Management, LLC	-	-	-	-	-	3,500.0	-	3,500.0
Goldman Sachs Group Inc	2,267,462.9	1,540,452.1	1,621,392.9	1,975,309.3	1,942,442.9	1,698,040.0	1,038,449.3	1,063,517.1
Grantham Mayo Van Otterloo & Company	122,960.0	146,959.3	353,759.3	746,559.3	608,740.7	23,540.7	43,240.7	10,000.0
Greenleaf Trust	161,560.0	191,817.9	189,837.1	187,497.1	209,797.9	396,100.7	364,975.0	2,036,319.3
Greenwood Capital Associates, Inc.	-	-	3,425.0	-	-	-	-	-
Greystone Investment Management, LLC	-	-	-	-	-	-	-	-
Gries Financial Inc	-	-	-	12,200.0	12,300.0	12,300.0	-	-
Griffin Asset Management LLC	12,820.0	15,254.3	15,254.3	19,025.0	19,025.0	19,025.0	20,625.0	-
Gruntal & Co., L.L.C.	-	15,225.0	15,609.3	23,344.3	23,162.9	23,769.3	19,079.3	19,747.9
Guaranty Trust Company of Missouri (The)	134,369.3	139,027.9	138,689.3	140,487.1	137,947.9	137,294.3	143,665.7	144,720.7
Guardian Investor Services LLC	15,515.0	31,472.1	51,025.0	51,025.0	51,025.0	74,035.7	78,884.3	78,884.3
Guyasuta Investment Advisors Incorporated	5,450.0	5,450.0	5,050.0	5,050.0	5,922.9	7,902.9	8,412.9	10,372.9
Gw Capital Management, LLC	306,152.1	361,722.9	372,097.9	359,172.9	325,855.0	276,650.7	263,454.3	248,979.3
Haberer Registered Investment Advisor, Inc.	5,725.0	7,227.9	7,227.9	6,967.9	7,022.9	6,687.9	6,687.9	6,204.3
Hale & Dorr Capital Management, LLC	-	-	-	-	-	-	-	-
Halsey Associates, Inc.	42,460.0	74,960.0	75,985.0	75,435.0	75,485.0	75,585.0	92,360.0	99,760.0
Hammer (Roy A.) Esq	12,700.0	13,400.0	23,780.7	23,537.9	23,232.9	21,524.3	18,024.3	-
Hancock Bank Trust Department	8,240.0	8,240.0	8,240.0	8,990.0	8,890.0	8,890.0	8,740.0	-
Handelman (Meyer) Company	-	395,255.7	393,297.9	392,897.9	379,597.9	372,112.9	372,112.9	372,112.9
Hansberger Global Investors, Inc.	79,730.0	4,165.0	4,165.0	4,165.0	4,165.0	48,665.0	51,265.0	69,165.0
Harbor Capital Management Inc	-	11,480.0	16,980.0	16,980.0	16,400.0	16,400.0	18,700.0	16,400.0
Harris, Bretall, Sullivan & Smith, L.L.C.	-	-	11,900.0	-	1,865,860.7	1,673,895.7	1,652,182.1	498,739.3
Hartford Investment Management Company Inc.	343,715.0	375,217.9	375,817.9	399,817.9	367,717.1	370,917.1	368,917.1	427,075.7
Harvard College (President & Fellows of)	1,175,427.9	1,426,310.0	1,326,310.0	532,310.0	283,310.0	792,910.0	652,600.0	157,047.9
Harvest Management, LLC	495,600.0	-	-	-	-	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 6/30/2000 12/31/2001 **Institution Name** 3/31/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Haven Capital Management Inc 22,134.3 22,134.3 25,134.3 23,349.3 17,349.3 17,349.3 17,349.3 18,149.3 Henderson Fund Management PLC 1,198,237.1 Henssler (G.W.) & Associates, Ltd. Heritage Investors Management Corporation 3,420.0 Hermes Pensions Management Ltd 438,837.9 389,947.1 365,552.9 365,552.9 Hester Capital Management, L.L.C. 28,600.7 34,930.7 33,770.0 34,270.0 34,920.0 34,820.0 Hibernia National Bank 152,032.9 124,815.7 87,825.0 71,270.0 60,870.0 55,025.0 43,257.9 37,702.9 High Point Bank & Trust Company 7,122.1 7,122.1 6,922.1 Highland Capital Management Corporation 18,314.3 18,020.0 47,170.0 567,410.0 904.065.0 1,235,695.0 1,525,552.1 1,599,167.1 Highline Capital Management, LLC 146,700.0 Hintz, Holman & Hecksher, Inc. 569,700.0 _ Holderness Investments Company 33,204.3 36,425.0 Holland Capital Management, LLC 73,687.9 73,837.9 78,087.9 78,137.9 99,940.0 174,265.0 306,450.0 Horizon Asset Management, Inc./NY 10,320.7 10,620.7 10,620.7 10,545.7 9,945.7 13,245.7 35,430.0 47,589.3 Howard Capital Management 8,060.0 8.000.0 35,400.0 54,700.0 51,300.0 51,300.0 26,500.0 23,200.0 Howard Hughes Medical Institute 416,500.0 70,000.0 120,000.0 60,000.0 Howland Capital Management 3,640.0 3.940.0 3,640.0 HSBC Bank USA - IM 3,550.0 3,550.0 _ **HSBC Holdings PLC** 365,785.0 279,195.0 278,417.9 307,722.9 326,709.3 437,865.7 497,325.0 591,622.1 Hughes Investment Management Company 2,000.0 2,000.0 2,000.0 2,000.0 1,000.0 **Huntington National Bank** 238,240.7 263,842.1 254,594.3 185,745.7 146,890.0 134,635.0 135,910.7 141,705.0 Husic Capital Management 6,300.0 _ _ HVB Capital Management, Inc 16,699.3 10.7 10.7 _ _ I.G. Investment Management, Ltd 88,845.7 18,400.0 21,895.7 21,895.7 21,895.7 23,195.7 21,895.7 49,395.7 IBM Retirement Plan 1,009,714.3 942,072.1 943,985.7 959,182.1 1,011,865.7 991,390.0 1,009,510.0 1,001,499.3 ICC Capital Management, Inc. 137,000.0 117,000.0 68,200.0 1,132.1 Independence Investment LLC/Ma 5,012,247.9 4,670,355.7 5,902,914.3 3,064,870.0 2,025,900.0 1,819,500.0 2,989,300.0 2,654,900.0 INGg Advisors, Inc. 11,717.9 11,717.9 8,917.9 ING Investment Management Advisors B.V. 2,700.0 2,200.0 630.0 ING Investment Management, LLC. 45,000.0 92,220.0 52,700.0 ING Investments, LLC 120,500.0 157,679.3 34,700.0 39,420.0 25,400.0 27,800.0 179,900.0 179,420.0 Ingalls & Snyder 101,577.1 88,740.0 17,015.7 16,615.7 16,550.7 17,455.7 17,180.7 21,120.7 Innovest Capital Management 18,600.0 27,600.0 29,000.0 32,100.0 32,100.0 31,800.0 65,000.0 **Institutional Capital Corporation** 3,186,300.0 6,081,714.3 5,701,705.7 5,267,785.0 6.918.160.7 7,855,470.7 8,733,777.9 Insurance Company of The West _ _ _ _ _ Integra Bank N.A. 4,337.9 4,337.9 4,337.9 4,100.0 395,729.3 Intel Corporation 220,972.1 277,829.3 278,129.3 278,129.3 332,929.3 380,829.3 405,229.3 Intrepid Capital Management Inc/NY 170,365.0 155,745.7 113,137.1 105,490.7 121,800.0 139,712.9 157,115.7 174,404.3

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 6/30/2000 12/31/2001 **Institution Name** 3/31/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Inverness Counsel, LLC 5,040.0 5,897.9 5,607.9 5,707.9 4,707.9 Invesco Asset Management Ltd. 1,178,977.9 2,512,250.0 2,229,817.9 1,828,527.1 2,077,317.9 Invesco Funds Group, Inc. 3,141,100.0 2,298,222.9 5,360,522.9 5,829,122.9 5,776,162.9 3,606,667.1 2,885,994.3 5,050,774.3 Invesco Institutional (N.A.), Inc. 989,307.9 1,531,702.9 5,777,100.0 4,935,435.0 5,558,725.7 5,172,730.0 4,397,599.3 4,317,275.0 Investment Counselors of Maryland 16,450.0 7,450.0 15,450.0 15,450.0 15,450.0 15,450.0 15,450.0 6,350.0 Investment Management of Virginia LLC 6,120.0 Irvine Capital Management, LLC 10,000.0 15,000.0 _ Jacobs & Company 16,172.1 17,367.1 17,367.1 17,367.1 17,267.1 16,367.1 16,134.3 13,509.3 Jacobs Levy Equity Management, Inc. 87,800.0 821,594.3 8,700.0 27,300.0 16,700.0 8.100.0 1,034,170.0 JAM Asset Management, L.P. 54,859.3 39,204.3 Janus Capital Management, LLC 1,356,650.0 15,208,625.0 14,463,075.0 11,651,310.0 11,455,937.9 7,678,182.9 5,455,827.1 3,786,964.3 Jemmco Investment Management LLC 11,600.0 6,000.0 Jennison Associates LLC 8,724,000.0 17,773,254.3 13,785,255.0 14,782,735.0 14,722,872.1 13,794,547.9 13,512,837.1 12,633,907.9 Jensen Investment Management, Inc. 2,610.0 2,160.0 2,160.0 2,160.0 2,535.0 2,235.0 2,235.0 JL Advisors, LLC _ _ _ _ 292,395.7 Jmc Capital Management, Inc. 24,150.0 John Hancock Advisers, Inc. 1.076,270.0 789,780.7 587,720.0 625,782.9 917,704.3 1.180.357.1 1,205,092.1 1,202,012.1 Johnson (Tom) Investment Management, Inc. 4,765.0 Johnson Investment Counsel, Inc. 22,790.7 23,895.7 24,715.7 24,402.9 24,227.9 25,130.7 25,105.7 25,300.7 Johnston, Reid & Mitchell, Inc. 25,402.1 28,397.9 24,697.9 25,097.9 24,097.9 24,097.9 23,097.9 17,270,927.9 JP Morgan Chase & Company 31,933,790.7 28,847,570.7 27,173,600.0 20,733,352.1 18,135,282.9 24,070,240.7 22,596,182.9 Jundt Associates, Inc. 1,009,395.0 887,995.0 900,554.3 894,754.3 339,654.3 336,154.3 382,554.3 382,654.3 Jurika & Voyles LP 423,739.3 768,592.1 457,905.0 408,712.1 390,872.1 413,907.1 433,375.7 750,357.9 Kahn Brothers & Company, Inc. 196,619.3 190,524.3 173,030.7 171,995.7 170,699.3 171,114.3 170,422.9 169,090.7 Kayne Anderson Rudnick Investment Management LLC 7,140.0 5,700.0 6,092.1 5,185.0 4,992.1 KBW Asset Management Inc. 1,000.0 KCM Investment Advisors LLC 6,500.0 17,380.0 18,080.0 16,565.7 34,240.0 30,240.0 30,240.0 8,100.0 **Keating Investment Counselors** 37,100.0 35,600.0 35,600.0 34,440.0 34,440.0 32,940.0 32,705.0 32,705.0 Keller Group Investment Management, Inc. 3,500.7 26,394.3 214,200.7 284,715.0 280,059.3 _ _ Kellner, Dileo & Company 205,700.0 Kelly (Lawrence W.) & Associates Inc. 46,000.0 _ Kennedy Associates, Inc 303,687.9 228,114.3 Kentucky (State Of) Teachers Retirement System 864,742.9 578,842.9 578,842.9 578,842.9 676,342.9 626,342.9 580,742.9 593,142.9 Keybank National Association 63,972.9 1,177,847.9 1,259,517.1 1,167,132.1 1,471,335.7 2,863,715.0 3.541.239.3 5,301,270.0 Keydel, Frederick, R. 6,960.0 8,282.1 8,282.1 8,282.1 _ _ Killian Asset Management Corporation 65,120.0 77,492.1 75,055.7 74,580.0 96,580.0 Kinetics Asset Management Inc. 21,539.3 22,539.3 27,539.3 29,539.3 29,539.3 29,539.3 29,539.3 32,539.3 Kingdon Capital Management LLC 4,500.0

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 6/30/2000 12/31/2001 **Institution Name** 3/31/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Kirkbride Asset Management, Inc. 11.160.0 11,160.0 11.160.0 11,160.0 11,160.0 11,000.0 10,900.0 17,700.0 Klingenstein, Fields & Company, LLC 256,890.0 271,365.0 274,215.0 273,897.1 279,547.1 283,497.1 280,197.1 309,580.7 Kobrick Capital Management, L.P. 74,300.0 _ _ Kobrick Funds LLC 62,600.0 56,500.0 Kramer Capital Management, Inc. 1,400.0 Lafer Management Corp. 110,000.0 Laird, Norton Tyee Trust Company 32,135.0 20,435.0 19,160.0 17,660.0 16,360.0 16,360.0 35,277.9 43,147.9 Lane (Douglas, C.) & Associates, Inc. 112,637.1 121,662.9 126,682.9 129,622.9 140,704.3 163,477.1 194,587.1 Lasalle Bank N.A. 544,604.3 564,107.1 481,289.3 558,980.7 568,754.3 595,925.0 15,095.7 61,025.0 Lateef Investement Management _ _ _ _ _ 5,025.0 Lawson Kroeker Investment Management, Inc. 69,675.0 74,700.0 87,650.0 88,060.0 88,160.0 93,535.0 92,685.0 92,335.0 3,931,984.3 Lazard Freres & Co LLC 2,775,209.3 2,840,882.1 2,110,932.1 1,193,967.9 3,240,500.0 3,478,790.7 3,703,982.9 Leavell Investment Management, Inc. 22,457.1 30,882.9 24,457.1 24,457.1 28,127.1 28,957.1 21,457.1 20,215.7 Ledyard National Bank 5,637.1 5,637.1 5,637.1 6,037.1 5,680.0 6,099.3 5,780.0 6,077.1 Lee, Danner & Bass, Inc. 10,240.0 10,907.9 _ -_ _ _ Legal & General Group PLC 755,550.0 21,140.7 20,377.1 26,377.9 26,407.9 7,986,817.9 24,610.7 Legg Mason Inc. 718,679.3 652,655.0 611,429.3 550,645.0 662,750.7 656,005.0 673,787.1 862,039.3 Lehman Brothers Holdings Inc. 20,654.3 31,012.9 43,427.1 69,549.3 90,675.7 72,495.0 139,212.9 189,542.9 Lepercq, De Neuflize & Co Incorporated 56,644.3 62,907.1 62,907.1 39,257.1 _ _ _ Levin (John A.) & Company, Inc. 3,632,732.9 3,195,870.7 3,424,455.7 3,590,222.9 3,980,482.1 4,555,387.9 4,831,734.3 5,042,330.0 Liberty Mutual Group Inc. 27,500.0 33,825.0 36,425.0 36,425.0 4,500.0 4,500.0 4,500.0 Lilley & Company 11,250.0 11,875.0 10,712.1 11,912.1 13,232.1 14,332.1 14,362.1 14,712.1 Lincoln Capital Management Co 18,942,100.0 7,489,500.0 8,746,499.3 5,579,899.3 _ _ _ Lindner Asset Management Inc. 7,972.9 51,800.0 52,200.0 110,000.0 28,900.0 1,600.0 Lipper, Kenneth 340,500.0 37,400.0 _ Lloyds Banking Group PLC 631,157.9 Lodestar Investment Counsel Inc/IL 16,165.7 15,875.7 13,875.7 13,875.7 Loeb Arbitrage Management Inc. 49,200.0 72,394.3 Logan Capital Management, Inc. 92,584.3 92,584.3 92,584.3 92,645.7 92,685.7 92,990.7 91,677.1 _ Lomax, Edgar Company (The) 7,700.0 15,650.7 22,250.7 Lone Pine Capital, LLC 535,000.0 535,000.0 535,000.0 _ Longwood Investment Advisors, Inc. 700.0 Loomis Sayles & Co L P 2,360,905.7 2,616,902.9 2,708,805.7 2,193,915.7 750,472.9 560,410.7 282,764.3 151,439.3 Lord Abbett & Co 5,508,934.3 4,594,240.0 4,668,312.1 2,192,424.3 2,265,830.0 1,752,127.9 1,770,490.7 Loring, Wolcott & Coolidge Fiduciary Advisors 40,855.7 37,350.0 37,245.7 36,465.0 38,245.7 38,979.3 35,379.3 36,402.9 Los Angeles Capital Management & Equity Research, Inc. 115,320.0 95,965.7 81,065.7 95,965.7 95,865.7 409,365.7 448,500.0 438,400.0 Lotsoff Capital Management 252.9 252.9 12,152.9 15,597.1 Lowe, Brockenbrough & Company, Inc. 5,275.0 5,000.0 5,000.0 4,900.0 4,900.0 199,150.0 289,045.0

Exhibit-16
Shares Held by Institutions During the Class Period

	As of the Quarter Ended									
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001		
Lowell, William A.	39,560.0	17,890.0	47,890.0	17,890.0	17,890.0	17,702.9	17,702.9	17,567.9		
LSV Asset Management	804,797.1	576,895.7	´-	-	´-	16,100.0	800.0	800.0		
Lunn Partners, LLC	20,700.0	24,632.9	24,632.9	-	-	-	-	-		
Luther King Capital Management	2,045,260.7	2,407,494.3	2,490,367.9	1,984,945.0	1,283,695.0	1,190,212.9	1,052,699.3	990,720.7		
LVM Capital Management Ltd/MI	- -	4,244.3	4,937.9	5,490.7	-	4,712.1	5,989.3	6,352.1		
M&T Bank	178,030.0	168,902.9	174,277.1	112,042.1	120,830.7	112,597.1	96,885.0	119,259.3		
Mackenzie Financial Corporation	26,900.0	49,247.1	146,827.1	160,537.9	162,182.9	-	104,539.3	113,200.0		
Mainstream Investment Advisers, LLC	-	-	-	15,000.0	-	-	-	-		
Mairs & Power Inc	6,120.0	6,120.0	6,120.0	6,120.0	6,120.0	7,575.7	6,975.7	5,590.7		
Manning & Napier Advisors Inc	18,487.1	-	249,390.7	1,724,597.1	2,972,272.1	3,207,457.1	3,651,132.1	3,580,107.1		
Manufacturers Life Insurance Co	530,822.9	246,484.3	248,100.7	123,337.1	408,399.3	223,442.9	245,879.3	264,370.7		
Manulife Asset Management (North America) Limited	182,384.3	18,475.0	20,729.3	89,829.3	312,805.0	201,410.7	264,367.9	271,030.7		
Marco Investment Management LLC	-	-	-	65.0	4,115.0	3,415.0	3,415.0	3,415.0		
Markel Gayner Asset Management Corporation	-	15,900.0	15,900.0	15,900.0	15,900.0	33,920.0	33,920.0	33,920.0		
Markston International, LLC	120,020.0	120,019.3	104,819.3	86,919.3	78,435.0	78,435.0	78,435.0	78,435.0		
Marque Millennium Capital Management Ltd	15,000.0	-	15,000.0	15,000.0	15,000.0	15,000.0	-	-		
Marshall & Ilsley Corporation	82,817.9	43,842.1	43,389.3	48,644.3	46,075.7	41,670.0	43,637.9	170,619.3		
Marshfield Associates	1,050.0	-	-	-	-	-	-	-		
Martin Currie Inc	-	-	-	-	33,000.0	15,000.0	17,200.0	8,600.0		
Martin Currie Investment Management Limited	-	-	-	-	184,100.0	115,225.0	74,300.0	74,300.0		
Martingale Asset Management, L.P.	-	80,100.0	65,500.0	-	9,000.0	26,000.0	25,700.0	-		
Marvin & Palmer Associates, Inc.	-	-	-	172,900.0	-	-	-	-		
Massachusetts Financial Services Co - Other	30,455,669.3	-	26,161,882.1	20,308,255.0	21,693,657.9	12,276,732.9	15,189,460.7	2,823,180.7		
Massachusetts Institute of Technology	2,575.0	-	-	-	-	-	-	-		
Mastrapasqua & Associates	475,134.3	650,047.1	771,412.1	1,025,952.9	1,135,835.0	1,156,075.7	1,077,972.1	480,502.1		
Matrix Asset Advisors, Inc.	110,992.9	133,772.1	133,112.1	132,270.7	148,985.7	154,485.0	171,735.7	176,782.9		
Maverick Capital Ltd.	-	-	-	-	-	-	-	4,750,000.0		
Mc Lean Budden Ltd	-	-	-	-	-	2,500.0	-	-		
Mcgahan Greene Mchugh Capital Management, LLC	78,100.0	138,100.0	138,100.0	138,100.0	138,100.0	138,100.0	138,100.0	138,100.0		
Mcglinn Capital Management, Inc.	15,090.0	-	7,142.9	-	-	-	-	142,700.0		
McKee (C.S.) L.P.	45,339.3	130,989.3	106,035.0	98,872.1	-	-	136,100.0	223,400.0		
McKinley Capital Management, Inc.	-	-	-	663,720.7	666,690.7	652,070.7	546,420.7	264,270.0		
McMillion Capital Management, Inc.	600.0	3,284.3	44,515.7	44,787.1	45,789.3	-	-	-		
McMorgan & Company	2,117,225.0	2,132,500.0	2,104,035.7	2,149,985.7	2,173,835.7	2,205,235.7	2,658,235.7	2,669,685.7		
McRae Capital Management	-	4,212.9	3,812.9	3,812.9	-	-	-	-		
Mechanics Bank-John Rubin	5,657.9	5,657.1	5,657.1	5,657.1	5,657.1	5,657.1	8,007.1	8,007.1		
Media One Group Inc.	556,925.7	595,090.0	-	-	-	-	-	-		
Meeder Asset Management, Inc.	3,680.0	7,180.0	7,180.0	7,370.0	8,340.0	8,450.0	5,980.0	-		

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Mellon Bank, N.A.	11,301,517.1	16,057,135.0	17,937,555.0	17,736,984.3	18,319,715.0	17,716,834.3	21,807,024.3	21,145,625.7
Members Capital Advisors, Inc.	746,694.3	864,164.3	403,282.9	410,782.9	513,182.9	703,382.9	915,282.9	959,482.9
Mercantile Bankshares Corporation	25,290.0	33,452.1	31,287.1	32,562.9	36,845.0	39,347.9	40,272.1	35,280.0
Mercantile National Bank of Indiana	-	-	10,359.3	14,680.0	18,900.0	16,302.9	13,112.9	16,912.9
Merlin Biomed Group, L.L.C.	155,000.0	-	-	-	-	-	-	-
Merrill Lynch & Co., Inc.	773,175.0	643,152.9	770,632.1	2,031,354.3	1,222,744.3	1,632,385.7	1,482,132.9	1,480,372.9
Merrill Lynch Investment Managers Co. Ltd. (Japan)	64,084.3	-	-	-	692,349.3	783,879.3	659,457.1	720,157.1
Merrill Lynch Investment Managers Group Limited	1,138,812.9	95,822.1	102,962.1	98,162.1	2,915,162.9	3,309,282.1	3,327,865.7	1,225,547.9
Merrill Lynch Investment Managers, LLC	-	6,126,330.0	10,521,527.1	10,863,549.3	6,633,137.1	5,306,480.0	4,981,292.9	4,951,495.0
Mesirow Asset Management, Inc.	-	-	1,975.0	1,975.0	-	-	-	-
Messner & Smith Theme/Value Investment Management	-	4,000.0	-	4,000.0	4,000.0	-	-	-
Metlife	585,335.0	893,760.0	909,735.0	900,819.3	784,809.3	804,862.1	937,272.1	793,620.7
Metropolitan West Capital Management, LLC	322,585.7	465,492.9	11,792.1	10,347.9	-	-	-	-
Michigan (State of) State Treasurer	1,114,979.3	5,000,372.1	5,008,972.1	5,029,672.1	5,034,002.1	5,040,122.9	5,040,122.9	5,059,822.9
Midas Management Corporation	-	-	-	30,900.0	-	-	-	-
Middleton & Company, Inc.	-	-	3,600.0	3,600.0	-	-	-	-
Milbank Winthrop & Co.	4,360.0	5,787.9	5,787.9	5,787.9	5,787.9	5,787.9	5,787.9	9,537.9
Millennium Partners LP	-	-	-	135,659.3	-	-	-	282,874.3
Minis & Company, Inc.	16,140.0	16,140.0	16,140.0	16,140.0	16,140.0	15,740.0	15,740.0	15,740.0
Missouri State Employees' Retirement System	149,130.0	166,845.7	168,245.7	167,045.7	161,845.7	161,845.7	135,545.7	114,890.0
Missouri Valley Partners, Inc.	-	-	-	4,860.7	5,965.7	4,465.7	-	-
Monetary Management Group, Inc.	-	-	-	5,625.0	-	-	-	-
Monroe Bank & Trust Company, Mi	20,617.9	23,715.7	22,970.7	12,039.3	11,909.3	11,909.3	8,952.1	8,952.1
Montag & Caldwell, Inc.	-	-	9,489,260.0	18,140,087.1	20,261,472.1	14,708,229.3	9,260,575.7	11,180,627.1
Montag (A) & Associates	-	-	3,517.1	3,517.1	-	-	-	-
Montana Board of Investments	-	-	521,600.0	521,600.0	621,600.0	-	-	871,600.0
Montgomery Asset Management, LLC	123,425.0	143,985.7	139,385.0	166,985.7	-	50,170.7	-	-
Moody National Bank Trust Division	-	-	-	-	-	-	-	-
Moody, Lynn & Co.	7,979.3	45,590.0	135,845.0	134,564.3	49,049.3	42,710.7	41,505.7	139,457.1
Moore Capital Management, LLC	-	314,400.0	-	-	-	-	-	-
Morgan Stanley	2,720,027.1	15,321,452.9	16,203,872.9	18,066,720.7	15,181,255.7	13,704,055.0	12,628,024.3	15,257,344.3
Morgens Waterfall Vintiadis & Co. Inc.	-	-	-	66,400.0	-	-	-	-
Morse, Williams & Company, Inc.	24,400.0	-	10,500.0	14,300.0	17,700.0	21,600.0	15,200.0	16,700.0
Mott (Charles, S.) Foundation	154,270.0	165,910.7	165,910.7	165,910.7	165,910.7	165,910.7	165,910.7	165,910.7
Munder Capital Management, Inc.	2,113,339.3	1,433,717.1	1,405,927.9	1,498,085.7	1,514,017.9	1,309,920.7	1,291,839.3	1,316,120.0
Munich Re Capital Management Corp	-	55,975.0	55,975.0	56,000.0	74,300.0	280,087.1	316,387.1	339,287.1
Murphy Capital Management Inc.	6,082.9	1,205.0	5,055.0	7,227.9	5,527.9	4,227.9	1,992.1	1,292.1
Murray Johnstone International Ltd	-	-	20,000.0	46,000.0	-	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Mutual of America Capital Management Corp	139,990.0	236,537.1	269,755.7	132,560.0	128,487.1	131,122.1	128,077.1	130,604.3
MWN Ltd.	-	-	-	-	-	103,000.0	23,500.0	4,840.7
Myers (James M.) Research, Inc.	-	-	-	-	180,859.3	173,669.3	154,705.7	92,475.0
Nagle (Garrett) & Co., Inc.	10,865.0	7,140.0	7,140.0	7,140.0	-	-	-	-
Narragansett Management, LP	-	-	-	-	-	-	-	100,000.0
National Asset Management	-	-	-	2,790.0	79.3	-	-	-
National Bank of Indianapolis Corp	-	-	882.1	2,587.1	2,687.1	3,407.9	3,232.9	4,027.9
National City Corporation	6,419,157.1	8,237,017.9	7,639,799.3	7,676,389.3	7,792,327.1	7,523,625.0	7,635,040.0	7,015,672.1
National Commerce Financial Corp	41,640.0	55,752.1	113,717.9	62,365.7	69,790.7	78,150.7	84,730.0	88,489.3
National Fiduciary Services, N.A.	10,024.3	25,122.9	28,042.9	32,842.9	35,897.9	20,277.9	20,667.9	18,147.9
National Investment Services, Inc.	-	-	178,400.0	60,400.0	-	-	-	-
National Life Insurance Co	1,252,712.9	853,210.7	606,480.7	396,222.9	341,532.1	26,162.9	25,307.1	419,407.1
National Rural Electric Cooperative Association	395,000.0	470,050.0	134,450.0	-	-	-	-	-
Nationwide Mutual Insurance Co	541,600.0	-	-	-	-	-	-	-
NBT Bank, N.A.	35,382.9	34,887.1	34,887.1	34,887.1	33,387.1	33,387.1	33,387.1	33,737.1
NCM Capital Management Group, Inc.	-	-	210,067.1	401,630.7	412,259.3	606,227.1	228,000.0	228,000.0
Needelman Asset Management, Inc.	-	-	-	17,900.0	22,900.0	-	-	-
Nelson Capital Management Inc./Ca	-	4,775.0	4,377.1	4,032.1	-	-	-	-
Neuberger Berman Group, LLC	1,536,845.0	1,925,744.3	1,838,972.1	930,217.1	1,254,652.9	1,540,912.1	1,771,359.3	3,593,142.1
Neville, Rodie & Shaw, Inc	15,875.0	15,872.9	15,907.9	15,610.7	15,280.0	15,180.0	15,080.0	15,215.0
New Mexico Educational Retirement Board	157,374.3	154,374.3	154,374.3	154,374.3	172,674.3	345,347.9	-	188,074.3
New York Life Investment Management LLC	190,509.3	1,192,795.0	1,314,912.1	2,725,075.7	1,354,847.9	1,267,735.7	1,260,080.7	1,189,310.0
New York State Common Retirement Fund	5,749,485.0	6,600,020.0	5,294,025.7	5,208,525.7	5,439,925.7	5,524,185.7	3,790,820.0	4,162,679.3
Newell Associates	678,994.3	751,339.3	569,537.9	544,437.9	544,437.9	544,437.9	544,437.9	546,737.9
Niagara Investment Advisors, Inc.	13,892.9	15,902.1	16,060.0	24,417.1	26,025.7	24,887.9	24,127.1	21,232.1
Nicholas Company, Inc.	423,000.0	825,470.0	825,470.0	823,370.0	812,870.0	812,070.0	803,770.0	803,770.0
Nichols & Pratt Advisors, LLP	-	-	-	-	-	-	7,315.0	7,315.0
Nippon Life Insurance Company	495,800.0	-	-	1,494,487.9	1,809,415.0	1,703,899.3	1,591,609.3	-
Nisa Investment Advisors, L.L.C.	86,545.7	102,555.7	104,755.7	112,555.7	137,170.7	147,170.7	138,735.7	175,835.7
Nli International Incorporated	-	-	-	61,300.0	69,400.0	57,900.0	62,100.0	-
Nomura Asset Management Company Limited	22,122.1	17,320.7	17,320.7	21,220.7	75,750.7	101,734.3	138,834.3	192,222.9
Nomura Asset Management U.S.A. Inc.	-	-	-	-	89,900.0	98,300.0	143,700.0	106,500.0
Nomura Holdings Inc.	284,834.3	581,772.9	757,660.0	856,475.7	907,825.0	1,024,635.0	804,044.3	358,752.9
Norges Bank Investment Management	-	-	-	-	69,137.1	182,890.7	213,890.7	639,774.3
Norris Perne & French LLP/Mi	4,349.3	5,957.1	5,957.1	5,957.1	5,657.1	5,657.1	5,657.1	5,622.9
North American Management Company	4,600.0	2,200.0	2,200.0	2,200.0	2,200.0	2,200.0	2,200.0	39,570.0
North Fork Bank	11,800.0	11,655.0	10,277.9	10,802.9	11,895.0	12,480.0	8,380.0	9,480.0
North Peak LLC	959,400.0	-	-	-	-	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 12/31/2001 **Institution Name** 3/31/2000 6/30/2000 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Northeast Investment Management, Inc. 35.350.0 39,240.7 39,640.7 40,655.0 40,297.9 40,297.9 32,447.9 32,495.0 Northern Capital Management LLC 9.075.0 Northern Oak Capital Management, Inc. 5,645.0 5,645.0 5,145.0 5,145.0 _ Northern Trust Company of Connecticut 219,129.3 238,549.3 169,649.3 132,849.3 70,749.3 103,349.3 192,949.3 163,267.1 Northern Trust Corporation 6,833,765.0 6,785,697.9 6,693,489.3 6,446,887.1 5,849,782.1 6,219,012.9 6,279,920.7 6,321,617.9 Northrop Grumman Investment Management Company 17,000.0 _ _ 13,000.0 13,000.0 Northstar Investment Advisors, L.L.C. 32,200.0 32,200.0 31,200.0 31,200.0 _ _ Northwestern Mutual Investment Services, Inc. 643,335.0 627,117.1 628,517.1 653,617.1 601,317.1 621,117.1 541,917.1 528,217.1 Northwestern Mutual Life Insurance Co 75,000.0 89,250.0 89,250.0 104,250.0 104,250.0 104,250.0 117,650.0 Norwest Bank Minnesota North, N.A. 25,062.1 25,062.1 Norwest Bank Minnesota, N.A. 91,197.9 81,247.1 Norwest Bank South Dakota, National Association 6,720.7 6,720.0 Numeric Investors, LLC _ 9,400.0 _ NWQ Investment Management Company, LLC 708,652.1 572,107.9 510,980.0 7,477.1 Nye (Richard B.) 363,700.0 87,852.9 _ _ Nye, Parnell & Emerson Capital Management Inc. 62,955.0 83,244.3 84,480.0 100,360.0 102,212.9 110.135.0 74,712.9 44,390.0 Oak Associates 9,920.7 _ Oakmont Corporation 3,300.0 Oam Avatar, LLC 110,055.0 101,962.1 _ _ _ _ _ Ocean Fund Advisors LLC 126,187.1 126,187.1 221,837.1 256,650.0 Offitbank 8,377.9 8,377.1 3,747.1 3,747.1 4,445.7 3,484.3 4,017.1 4,295.0 Ohio National Life Insurance Co 33,700.0 33,700.0 24,700.0 24,700.0 24,700.0 24,700.0 24,400.0 Ohio-Public Employees Retirement System (Pers) 1,702,869.3 1,858,279.3 1,991,230.7 2,005,699.3 2,312,452.9 2,416,517.9 2,784,970.7 3,490,490.0 Ohio-State Teachers Retirement System 2,356,532.1 2,388,282.1 2,444,380.7 2.532.382.1 2,722,347,9 2,859,447.9 2,838,447.9 2,700,947.9 Old Mutual Asset Managers (Uk) Limited _ 7,600.0 21,900.0 31,600.0 _ _ -Old National Trust Company 20,547.9 20,715.7 19,767.1 19,667.1 24,525.0 25,050.0 20,449.3 22,720.7 Omega Advisors Inc. 381,600.0 _ _ _ Onyx Capital Management, L.L.C. 35,000.0 Oppenheimer Funds, Inc. 7,604,500.0 5,112,037.9 4,538,637.9 3,400,937.9 3,015,802.1 2,280,287.1 2,140,787.1 1,342,569.3 Opus Investment Management, Inc. 113,987.1 112,785.7 111,385.7 105,785.7 100,585.7 83,985.7 78,085.7 78,285.7 Oracle Investment Management, Inc. 450,000.0 _ 100,000.0 _ _ _ _ _ Orbimed Advisors LLC. 2,855,000.0 1,391,000.0 1,385,300.0 1,684,500.0 1,987,500.0 2,270,500.0 3,060,600.0 3,980,200.0 Orbitex Management, Inc. _ 12,000.0 12,000.0 _ Origin Capital Management LLC 200,000.0 Orleans Capital Management 45,200.0 45,300.0 23,800.0 8,900.0 7,400.0 7,400.0 7,400.0 _ Osborne Partners Capital Management 10,420.0 10,420.0 10,420.0 10,420.0 7,720.0 7,520.0 7,520.0 7,520.0 Osterweis Capital Management, Inc. 2,000.0 2,000.0 P. Schoenfeld Asset Management 707,200.0 282,149.3 246,210.7 239,070.7 239,070.7

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 3/31/2000 6/30/2000 12/31/2001 **Institution Name** 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 PA Commonwealth of Public School Employees Retirement Sy 2,029,657.1 1,919,272.9 1,421,590.7 1,664,910.7 1,640,560.7 1,528,060.7 835,529.3 Pacific Assets Management, LLC 19.950.0 7.002.1 Pacific Capital Bancorp/Ca 71,342.9 71,042.9 57,542.9 56,920.7 57,220.7 49,520.7 Pacific Income Advisers, Inc. 48,555.0 51,795.0 PADCO Advisors Ii, Inc. 1,255.0 1,455.0 2,475.0 3,285.0 4,685.0 4,935.0 PADCO Advisors, Inc. 148,027.1 150,230.7 71,632.1 95,600.0 71,790.0 76,175.7 Palisade Capital Management, L.L.C. 12,100.0 14,445.0 12,445.0 9,512.1 15,500.0 _ Palm Beach Investment Advisers LLC 4,200.0 49,125.0 52,800.0 14,050.0 8,840.0 10,590.0 Panagora Asset Management, Inc. 406,265.7 539,255.7 513,177.1 615,950.7 728,712.9 750,912.9 755.312.9 749,612.9 Papp (L. Roy) & Associates 850.0 7,750.7 7,750.7 9,179.3 7,219.3 7,219.3 7,219.3 7,219.3 Para Advisors, LLC 126,094.3 212,532.9 Paradigm Asset Management Company, LLC 301,230.7 290,807.1 281,397.9 306,175.0 299,580.7 389,635.0 224,170.7 226,785.7 Parametric Portfolio Associates 410,757.1 441,662.9 476,189.3 Paramount Biocapital Asset Management, Inc. 22,650.0 _ _ Park National Corp/Oh 19,967.1 25,327.9 6,812.1 6,547.9 7.820.0 7,270.0 7.167.1 7,467.1 Parker/Hunter, Inc. 4,080.0 4,855.0 4,625.0 4,069.3 Parsons Capital Management, Inc. 60.952.9 60,642.9 59,587.9 59,687.9 55,142,9 53.330.7 48,330.7 46,230.7 Parthenon Capital Management, LLC 2.380.0 2,380.0 2,380.0 4,760.0 4,760.0 4,960.0 4,990.0 4,990.0 PASCO Investment Advisors Inc. 475.0 _ _ _ _ _ Payden & Rygel Investment Group Payson (H.M.) & Company 14,674.3 14,249.3 14,149.3 13,934.3 11,734.3 11,115.7 Peapack Gladstone Financial Corp. 9,885.7 9,985.7 10,362.1 9,710.0 Pekin, Singer & Shapiro Asset Mgt, Inc. 77,130.0 63,630.0 58,930.0 47,330.0 43,735.0 41,330.0 66,737.1 Penn Mutual Life Insurance Co 8,695.7 298,660.0 9,319.3 8,830.7 10,060.0 7,750.0 Peoples Mutual Holdings 87,837.9 73,704.3 73,704.3 84,922.9 84,127.9 82,427.9 88,442.9 83,712.9 Pequot Capital Management, Inc. 1,481,300.0 3,466,800.0 Perigee Investment Counsel, Inc. 30,820.7 _ _ _ _ Perry Corporation 873,600.0 Perseus, L.L.C. 10,000.0 _ Petersen, Flynn & Dinsmore, Inc. 10,000.0 31,515.0 80,200.0 Philadelphia Investment Management Company 35,960.0 32,250.0 33,100.0 33,060.0 32,990.0 32,250.0 28,365.0 Pilgrim Baxter & Associates Ltd. 17,400.0 123,065.7 472,519.3 682,700.0 1,723,300.0 512,400.0 Pinnacle Associates, Ltd. 5,985.7 6,292.9 5,837.1 5,837.1 5,030.7 5,132.1 5,810.0 8,422.1 Pinnacle International Management LLC 8,722.1 Pinnacle Management And Trust Company 300.0 357.1 357.1 357.1 357.1 357.1 40.0 _ Pioneer Investment Management Inc. 2,050,417.9 2,297,777.9 2,247,782.9 2,262,782.9 1,192,702.9 1,194,535.0 812,580.7 1,497,060.0 Pitcairn Group L.P. 6,130.0 8,027.1 26,877.9 32,550.7 32,232.1 31,555.7 26,547.9 27,077.1 PNC Financial Services Group, Inc. 1,362,450.7 1,312,745.0 1,270,889.3 1,263,072.1 1,251,634.3 1,287,492.9 1,203,725.0 1,217,842.1

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Portola Group, Inc.	_	-	4,222.9	4,104.3	4,104.3	-	_	-
Prescott Group Capital Management, L.L.C.	-	-	-	-	-	-	-	7,140.0
Price (T.Rowe) Associates Inc	10,750,242.1	10,876,507.9	9,135,715.7	7,668,437.9	7,756,717.9	7,403,247.1	3,793,912.1	3,274,340.0
Primecap Management Company	43,336,157.9	41,085,377.1	33,823,082.9	33,015,694.3	30,877,444.3	30,445,507.1	30,405,007.1	31,146,004.3
Principal Financial Group, Inc.	1,524,819.3	2,117,724.3	2,668,775.0	1,664,585.7	1,550,902.9	2,265,197.9	1,359,589.3	1,201,514.3
Private Asset Management, Inc.	85,255.0	85,904.3	83,872.9	81,652.9	147,030.0	64,600.0	58,240.7	50,370.0
Provident Investment Advisors, Inc.	4,100.7	4,000.7	3,850.0	3,510.7	37,857.9	17,137.9	13,277.1	9,152.9
Provident Investment Counsel Inc	-	4,915,550.0	4,634,255.7	5,380,372.1	4,268,497.1	761,727.1	720,927.1	346,727.1
Provident Trust Company	-	-	-	-	-	-	750.0	-
Prudential Equity Group, Inc.	-	299,132.1	306,442.9	377,890.7	75,549.3	472,280.0	709,055.0	765,560.7
Prudential Financial, Inc.	2,554,942.1	3,576,982.9	3,230,837.1	2,656,729.3	2,861,867.1	2,848,500.0	2,802,667.9	2,685,082.1
Prudential PLC	-	-	-	4,495.0	4,495.0	5,100.0	5,100.0	8,500.0
Putnam (FL) Investment Management Company	9,545.0	9,154.3	9,154.3	8,935.0	8,935.0	8,757.9	7,907.9	7,832.9
Putnam Investment Management, LLC	150,910.7	50,982,165.7	55,288,450.0	51,596,604.3	32,137,994.3	30,031,300.0	32,382,975.7	30,374,760.0
Quaker Partners LLC	-	-	-	-	23,100.0	-	8,800.0	-
Qwest Asset Management	556,925.7	595,090.0	564,242.1	518,080.7	493,687.1	493,087.1	457,335.0	408,624.3
Rainier Investment Management	775,880.0	740,375.0	747,590.0	690,027.9	1,012,427.9	871,477.9	719,702.9	-
Rampart Investment Management Company, Inc.	-	-	-	-	-	-	1,050.0	-
Ramsey Quantitativ Systems	-	-	-	-	-	51,900.0	19,500.0	72,600.0
Ray (Gerald L) & Associates	268,717.9	270,815.0	270,815.0	269,377.1	268,950.7	268,050.7	274,025.7	270,325.7
Raymond James Trust Company	7,577.1	9,542.9	11,442.1	11,582.9	12,572.9	12,872.9	12,572.9	7,440.7
RBC Dain Rauscher	16,562.1	133,972.9	158,580.7	33,470.7	151,097.9	106,890.0	59,772.1	59,962.1
RE Advisers Corp.	243,950.0	243,950.0	26,200.0	-	-	-	-	-
Regions Financial Corporation	194,470.7	198,870.7	197,315.7	-	264,874.3	318,434.3	312,029.3	254,512.9
Renaissance Group, LLC	-	-	-	-	-	-	80,950.0	118,675.7
Renaissance Technologies, LLC	-	-	-	306,400.0	411,400.0	758,400.0	936,900.0	1,441,900.0
Renberg Capital Management, Inc.	3,000.0	3,000.0	4,000.0	3,000.0	3,000.0	3,000.0	3,000.0	3,000.0
Retirement Capital Advisors	-	-	-	-	-	175.0	175.0	175.0
Rice, Hall, James & Associates	-	-	3,400.0	3,400.0	-	-	-	-
Richards & Tierney, Inc/Il	8,955.7	10,502.9	12,602.9	9,402.9	9,402.9	9,802.9	8,602.9	13,402.9
Riggs Bank N.A./Wa	159,815.7	159,690.7	153,515.7	153,315.7	74,590.7	75,150.7	68,975.7	68,410.7
Rightime Econometrics, Inc.	23,007.9	21,535.7	36,094.3	17,394.3	14,537.1	16,565.7	13,612.1	-
Rittenhouse Trust Company (The)	11,250.0	12,130.7	12,880.0	13,237.1	13,387.1	13,387.1	14,027.9	14,967.9
Riverbridge Partners LLC	-	-	-	8,900.0	9,400.0	8,600.0	9,260.0	8,940.0
Rnc Capital Management LLC	-	-	-	-	-	-	-	8,275.0
Rochdale Investment Management Inc	-	6,167.1	6,132.1	6,332.1	6,489.3	6,574.3	7,495.0	7,547.9
Rockefeller Financial Services, Inc.	55,100.0	373,412.1	373,412.1	427,512.1	389,912.1	344,312.1	42,012.1	11,500.0
Roll And Ross Asset Management Corp.	-	5,600.0	37,700.0	-	-	32,500.0	31,700.0	39,500.0

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Roosevelt Investment Group Inc.	-	-	_	142,737.1	63,259.3	-	-	-
Rorer Asset Management LLC/Pa	1,558,392.9	-	-	-	-	-	-	-
Rothschild Investment Corporation	71,392.9	70,997.9	71,297.9	69,305.7	67,805.7	69,859.3	64,859.3	61,414.3
Roxbury Capital Management	-	1,545,857.1	4,400,494.3	4,395,284.3	4,470,327.9	4,454,389.3	4,327,309.3	3,958,470.7
Royal Bank of Scotland Group, PLC	293,874.3	28,952.1	16,560.7	83,189.3	82,284.3	75,550.7	69,985.7	61,485.7
Royal London Mutual Insurance Society Limited (The)	78,350.0	79,055.7	100,245.7	110,445.7	229,045.7	-	-	-
Ruane, Cunniff & Goldfarb Inc.	5,200.0	6,187.9	6,187.9	6,187.9	6,387.9	6,387.9	7,532.9	7,594.3
Russell (Frank) Company Inc	433,432.1	-	-	-	2,402,072.9	2,108,964.3	1,373,480.0	1,099,797.9
S & Co., Inc.	2,425.0	38,920.7	2,425.0	-	2,425.0	2,425.0	2,425.0	452,055.0
S&T Bank/Pa	862.1	860.7	-	-	-	-	-	-
S.A.C. Capital Advisors, LLC	-	57,500.0	75,160.0	-	-	-	491,500.0	1,304,500.0
Safeco Corporation	120,487.9	-	-	-	-	-	-	-
Salem Investment Counselors, Inc.	-	6,332.9	7,712.9	7,712.9	7,712.9	7,712.9	-	8,124.3
San Francisco Sentry Investment Group	11,540.0	11,540.0	11,540.0	11,540.0	5,429.3	12,040.0	12,040.0	12,040.0
Santa Barbara Asset Management	-	-	-	-	-	-	10,999.3	7,017.1
Sarofim, Fayez	14,935.0	18,377.9	18,377.1	19,655.7	19,655.7	19,155.7	19,155.7	19,580.7
Sass (M.D.) Investors Services, Inc.	-	-	-	8,000.0	-	-	-	-
Satellite Asset Management	3,000,600.0	465,240.7	465,240.7	465,240.7	465,240.7	-	-	-
Schroder Investment Management Group	1,793,164.3	1,974,412.1	789,035.7	711,905.0	708,139.3	698,780.0	1,381,344.3	4,531,339.3
Schulhoff & Company, Inc.	21,670.0	21,670.0	21,670.0	21,670.0	21,670.0	17,990.0	19,490.0	19,490.0
Schupf (H.A.) & Co., Inc.	-	-	-	-	-	-	-	8,000.0
Schwab (Charles) Investment Management, Inc.	1,193,107.9	1,628,345.0	1,730,547.9	1,732,585.0	1,727,810.0	1,780,035.0	1,845,164.3	1,834,489.3
Schwartz Investment Counsel, Inc.	6,400.0	7,984.3	5,967.9	6,182.1	6,182.1	6,182.1	6,682.1	7,682.1
Sears Investment Management Co	159,500.0	80,337.9	55,700.0	34,100.0	-	-	-	-
Seaward Management Corporation	-	-	-	-	-	-	-	89,285.0
Securities Mgmt & Research	-	44,700.0	44,700.0	44,700.0	44,700.0	175,850.0	176,500.0	177,300.0
Security Asset Management	3,915.0	-	5,817.9	-	5,817.9	4,657.9	80,647.9	-
Security Management Company, LLC	190,055.7	376,402.9	479,015.0	276,015.0	314,215.0	255,715.0	387,342.1	416,442.1
Security National Bank of South Dakota	11,240.0	5,500.0	5,500.0	5,500.0	5,500.0	5,500.0	5,500.0	5,500.0
Segall Bryant & Hamill Investment Counsel	14,200.0	13,289.3	12,517.1	12,000.0	12,000.0	11,800.0	11,800.0	11,800.0
Seligman J.W.&Co Incorporated	-	-	648,300.0	648,300.0	14,599.3	1,670.0	1,830.0	116,385.0
Seminole Management Company, Inc.	-	-	-	-	-	300,000.0	-	-
Seneca Capital Advisors LLC	175,000.0	174,930.0	174,930.0	-	-	174,930.0	174,930.0	174,930.0
Seneca Capital Management LLC	150.0	-	302.1	-	170.0	-	-	-
Sentinel Trust Company, Lba	5,300.0	5,300.0	5,300.0	5,300.0	5,300.0	-	-	-
Sentry Investment Management Inc	-	-	-	36,500.0	67,100.0	69,600.0	69,600.0	69,600.0
Sequoia Analytical Investors, LLC	-	-	-	39,940.0	23,800.0	44,160.0	51,570.0	17,930.0
SG Cowen & Company, LLC	101,175.0	172,409.3	176,492.1	148,482.9	128,682.9	86,482.9	96,277.1	96,970.7

Exhibit-16
Shares Held by Institutions During the Class Period

	As of the Quarter Ended									
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001		
Shaw (George T.)	18,980.7	12,042.9	_	_	_	_	_	_		
Shaw D.E. & Co., Inc.	-	_	188,600.0	-	-	-	-	-		
Shoreline Investment Management	-	-	155,000.0	155,000.0	80,000.0	-	-	-		
Shufro, Rose & Co., LLC	44,770.0	34,185.7	28,824.3	29,024.3	28,299.3	28,732.1	27,574.3	27,259.3		
Simmons First Trust Company, N.A.	660.0	860.0	860.0	860.0	860.0	1,287.1	360.0	360.0		
Sirach Capital Management, Inc.	-	-	35,000.0	18,000.0	18,000.0	18,000.0	18,000.0	-		
SIT Investment Associates Inc	315,600.0	467,600.0	564,200.0	565,700.0	568,700.0	571,750.0	550,250.0	562,750.0		
SKBA Capital Management, LLC	-	139,735.0	66,405.7	27,430.0	-	-	-	-		
Sloate, Weisman, Murray & Company, Inc.	-	107,385.0	-	-	-	-	-	-		
Smith Asset Management Group, L.P.	100.0	150.0	150.0	150.0	-	-	-	-		
Smoot, Miller, Cheney & Company	40,380.0	25,350.0	25,200.0	24,400.0	118,300.0	102,650.0	103,800.0	52,000.0		
Snyder Capital Management, LP	-	-	-	8,460.0	-	-	-	-		
Snyder, Jennifer, C.	-	-	-	-	11,790.0	18,080.0	15,700.0	15,700.0		
Soros Fund Management LLC	6,860.0	250,000.0	250,000.0	-	-	-	-	-		
Sound Shore Management, Inc.	-	-	-	-	-	-	2,357,300.0	1,468,100.0		
Southtrust Asset Management Company	42,577.1	-	-	-	-	-	-	-		
Spears (W.G.), Grisanti & Brown, LLC	-	6,750.0	6,750.0	6,750.0	6,750.0	6,850.0	6,850.0	6,850.0		
SSI Investment Management Inc.	-	-	-	-	27,850.0	125.0	125.0	-		
St Paul Travelers Companies, Inc.	-	-	-	352,510.0	249,680.0	99,820.0	2,780.0	2,780.0		
St. Germain (D.J.) Company, Inc.	-	-	-	3,962.1	3,962.1	-	-	-		
Standard Life Investments (Usa) Limited	-	-	-	340,127.1	587,910.7	696,119.3	717,632.1	779,942.9		
Starbuck, Tisdale & Associates	9,145.7	9,145.7	9,245.7	9,967.9	10,427.9	9,867.9	11,867.9	11,867.9		
State Farm Mutual Automobile Insurance Co	1,740,000.0	2,070,600.0	2,070,600.0	2,077,300.0	2,077,300.0	2,077,300.0	2,077,300.0	2,077,300.0		
State Street Corporation	16,077,570.7	26,425,730.7	26,964,022.9	28,684,042.9	29,770,454.3	31,053,502.1	31,860,317.9	32,775,235.7		
State Street Research & Management Company - Other	8,080,550.0	9,211,405.0	10,316,237.1	8,320,274.3	8,644,460.0	8,507,245.0	8,450,342.1	6,617,025.7		
Stein Roe & Farnham Incorporated	386,007.9	342,474.3	338,355.7	335,135.0	33,535.0	-	72,100.0	406,400.0		
Steinberg Global Asset Management, Ltd.	9,710.0	10,520.7	10,680.0	11,830.0	11,882.1	10,582.1	10,382.1	9,035.0		
Steinroe Investment Counsel, LLC	-	-	-	-	239,289.3	227,319.3	207,055.0	166,485.0		
Stephens Inc.	-	-	-	-	-	-	-	100.0		
Sterne Agee & Leach Group, Inc.	15,925.0	1,037.9	6,209.3	4,899.3	-	-	-	-		
Stevenson Capital Management	4,629.3	4,937.9	4,937.9	-	4,500.0	4,500.0	3,000.0	3,000.0		
Stichting Pensi0Enfonds Abp	-	-	-	-	-	359,897.1	519,497.1	1,125,005.0		
Stock Yards Bank And Trust Company	-	-	-	-	-	-	-	-		
Stonebridge Capital Management Inc	-	-	6,490.0	16,640.0	25,290.0	28,690.0	30,090.0	15,700.0		
Stoneridge Investment Partners, L.L.C.	151,620.0	203,980.0	187,025.0	-	125,785.0	127,310.0	109,970.0	109,620.0		
Storie Advisors, LLC	-	-	-	-	-	10,000.0	-	-		
Stratton Management Company	25,174.3	22,865.7	20,787.9	20,487.9	18,304.3	17,304.3	16,685.0	17,085.0		
Strong Capital Management, Inc.	114,475.0	217,055.7	1,213,355.7	2,385,597.9	1,179,637.1	402,797.9	94,017.1	413,139.3		

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Sturdivant & Company, Inc.	-	-	44,172.1	44,772.1	44,772.1	-	24,600.0	-
Suffolk Capital Management Inc.	637,720.7	-	-	-	-	-	-	-
Sumitomo Life Insurance Company	-	-	178,240.0	260,620.0	217,330.7	138,567.9	123,080.7	129,732.1
Summit Investment Partners, Inc.	81,569.3	61,195.0	47,634.3	31,460.7	32,014.3	32,879.3	31,419.3	31,419.3
Sun Life Assurance Company of Canada	150,900.0	97,595.7	11,317,602.9	84,122.9	17,427.9	64,092.9	125,492.9	95,125.7
Sunrise Partners Limited Partnership	641,600.0	8,835.0	-	31,447.9	85,112.9	228,112.9	273,412.9	109,967.9
Suntrust Banks, Inc.	1,226,562.1	1,548,759.3	1,516,654.3	1,321,917.1	1,425,119.3	1,421,295.0	1,459,579.3	1,337,562.1
Susquehanna Trust & Investment Company	-	-	-	-	-	5,240.0	-	-
Swan (Philip) V. Associates Inc.	9,440.0	20,724.3	26,974.3	27,974.3	28,674.3	30,299.3	30,674.3	37,119.3
Swarthmore Group (The)	-	-	-	169,177.9	212,075.0	212,075.0	212,075.0	220,825.0
Swiss Re Asset Management Americas, Inc.	110,000.0	115,400.0	120,000.0	110,000.0	-	96,800.0	-	135,000.0
Synovus Financial Corporation	283,045.0	158,064.3	322,169.3	221,309.3	93,812.9	164,562.1	16,049.3	39,325.0
Systematic Financial Management, L.P.	414,019.3	103,325.0	104,610.7	106,350.0	52,935.7	34,767.1	35,295.7	33,920.0
T/F Partners	60,800.0	-	-	-	-	-	-	-
Taconic Capital Advisors, L.L.C.	188,000.0	187,900.7	187,900.7	187,900.7	180,400.7	187,900.7	-	-
Talon Asset Management	-	4,500.0	4,500.0	4,500.0	4,500.0	4,500.0	-	91,900.7
Taunus Corporation	16,143,675.0	12,955,765.0	11,471,090.7	13,775,037.9	13,703,444.3	14,713,319.3	17,611,267.9	22,148,915.0
Tcw Group, Inc. (The)	337,580.7	363,517.9	468,242.9	710,105.0	780,802.1	827,505.7	1,470,270.0	867,365.0
Td Asset Management, Inc	381,387.9	395.0	-	957,475.0	911,482.9	766,582.9	619,472.1	696,145.7
Teachers Advisors, Inc.	179,950.0	205,345.0	255,045.0	281,145.0	464,010.0	518,380.7	681,320.0	889,220.0
Terre Haute First National Bank	1,690.0	1,690.0	1,490.0	1,390.0	1,390.0	1,390.0	1,390.0	1,390.0
Tewksbury Capital Management Ltd	-	-	-	5,400.0	-	-	-	-
Texas - Teacher Retirement System	3,889,787.1	3,792,787.1	3,866,227.1	3,866,227.1	4,031,227.1	4,000,227.1	4,142,227.1	4,047,000.0
Thales Fund Management, L.L.C.	-	237,600.0	-	-	-	-	-	256,000.0
Third Point Management Company LLC	68,369.3	90,000.0	-	-	-	-	-	-
Thomas White International Ltd	-	-	-	-	-	-	-	16,684.3
Thompson, Siegel & Walmsley, Inc.	53,247.9	50,040.7	53,410.7	48,725.7	48,769.3	46,179.3	47,675.0	38,249.3
Thompson/Rubinstein Investment Management, Inc.	-	-	-	-	7,800.0	-	-	-
Thornburg Investment Management Inc.	33,320.0	50,760.0	70,760.0	121,474.3	108,405.0	71,995.0	-	-
Thrivent Financial For Lutherans	613,582.1	928,832.1	1,049,502.1	1,373,982.1	1,052,840.7	1,419,092.1	1,791,852.9	1,920,052.9
Thrivent Investment Management Inc	134,915.0	144,814.3	149,514.3	152,914.3	155,614.3	156,214.3	153,314.3	154,714.3
TIAA-CREF Trust Company FSB/MO	15,700.0	16,182.1	16,955.0	21,670.7	21,270.0	23,307.1	60,699.3	64,172.1
TIAA-CREF Investment Management, LLC	8,306,357.1	9,596,255.0	9,500,555.0	9,666,755.0	12,229,045.0	12,820,459.3	14,708,652.9	16,921,652.9
Times Square Capital Management	-	-	-	579,049.3	564,449.3	562,949.3	557,049.3	552,449.3
Tobias, Seth	35,000.0	-	-	-	20,000.0	20,000.0	-	-
Todd Investment Advisors Inc	10,300.0	10,000.0	9,800.0	9,800.0	9,800.0	9,800.0	-	-
Tompkins Trustco Inc	15,550.7	15,944.3	11,802.9	11,802.9	11,927.9	12,102.9	12,147.9	11,827.9
Tower Asset Management LLC	-	-	46,470.7	103,377.1	50,410.0	48,027.1	42,862.9	63,062.1

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Tradition Capital Management LLC	-	-	-	-	-	-	35,475.7	58,425.7
Train, Babcock Advisors LLC	40,485.0	118,644.3	115,607.1	113,357.1	113,107.9	108,514.3	111,665.7	75,080.7
Trainer, Wortham & Company	5,160.0	8,900.0	104,442.9	96,270.0	64,735.7	64,007.9	63,857.9	63,507.9
Transamerica Investment Management LLC	-	39,844.3	44,190.7	40,790.7	41,912.1	40,412.1	42,412.1	2,361,987.9
Trees Front Associates Inc	-	-	5,825.0	6,039.3	5,100.0	4,745.0	-	12,195.0
Trellus Management Company, LLC	-	-	-	-	-	40,000.0	-	66,000.0
Trilogy Advisors, LLC	-	-	-	-	-	-	-	1,046,307.1
Trinity Investment Management Corporation	13,565.7	620,482.1	574,882.1	575,582.1	532,044.3	299,117.9	229,517.9	135,717.9
Trust & Fiduciary Management Services Inc	-	-	-	-	-	2,260.0	2,260.0	2,260.0
Trust Company of Oklahoma (Tulsa)	-	8,932.1	7,052.1	6,945.0	6,045.0	6,825.0	11,825.0	-
Trust Company of Toledo, N.A.	21,700.0	5,555.0	5,555.0	5,555.0	-	-	-	-
Trust Company of Vermont	-	-	-	-	-	-	-	310.0
Trust Company of Virginia	-	-	-	-	-	5,100.0	8,550.0	19,815.0
Trustmark National Bank, Trust Department	-	5,912.1	8,142.1	7,792.1	8,067.1	8,067.1	5,552.1	5,522.1
Tudor Investment Corporation	-	-	-	-	-	151,300.0	-	-
Turner Investment Partners, Inc.	323,970.0	450,332.9	770,267.1	1,900.0	-	-	-	-
Tweedy Browne Company, L.L.C.	5,858,905.7	5,687,914.3	5,660,507.1	5,564,887.9	5,696,064.3	5,696,110.7	5,768,099.3	5,782,095.7
Twin Capital Management, Inc.	-	75,650.0	10,300.0	-	-	35,110.0	110,820.0	38,920.0
U.S. Bancorp (Minnesota)	3,198,887.1	4,466,420.7	4,899,492.1	4,827,729.3	4,586,064.3	4,604,490.7	4,776,794.3	5,336,732.9
U.S. Global Investors, Inc.	4,500.0	5,070.0	5,070.0	35,070.0	5,070.0	20,070.0	15,000.0	13,000.0
UBS Ag, New York Branch	137,439.3	-	-	-	-	-	-	-
UBS Americas Inc.	865,832.1	2,328,999.3	3,505,882.1	2,148,240.7	2,305,137.9	2,933,917.9	2,772,977.9	2,389,084.3
UBS Global Asset Management (Americas) Inc	914,660.0	884,199.3	1,326,199.3	1,364,152.1	724,552.1	732,952.1	230,452.1	124,785.0
UBS Global Asset Management (Uk) Limited	217,165.7	125,212.1	128,112.1	132,462.1	137,989.3	253,389.3	245,237.1	228,260.7
UBS O'Connor LLC	-	-	-	-	64,800.0	55,000.0	332,400.0	246,000.0
UBS Securities LLC	285,230.0	884,719.3	1,695,864.3	1,028,855.7	1,835,467.1	1,746,335.0	2,533,630.7	1,773,650.0
Ullman (John G.) & Associates, Inc.	94,149.3	42,987.9	38,164.3	37,482.9	37,195.0	36,415.0	41,165.0	52,607.9
UMB Bank N/A/MO	374,629.3	366,694.3	375,534.3	367,050.7	310,702.9	290,492.1	287,507.9	274,527.1
Union Planters Bank, N.A.	190,250.7	183,374.3	218,377.1	221,674.3	225,582.1	231,905.0	231,095.7	224,720.7
Unionbancal Corp	537,005.0	536,990.0	493,057.9	426,350.0	418,365.0	432,475.7	457,865.7	482,115.0
United National Bank/WV	33,714.3	28,679.3	26,142.9	24,450.7	24,510.7	-	-	22,009.3
United States Trust Company of New York	1,194,847.9	1,427,135.0	1,408,852.1	1,373,072.9	1,665,922.9	1,735,099.3	1,768,302.1	1,447,615.0
United Trust Bank/NJ	11,900.0	10,700.0	26,150.0	44,787.9	48,534.3	39,887.9	14,887.9	10,587.9
Unizan Financial Services Group N.A.	35,467.1	33,967.1	31,967.1	26,145.7	22,520.0	20,820.0	20,820.0	57,927.9
Ursus Capital Management, L.L.C.	-	-	-	-	-	-	-	20,000.0
USAA Investment Management Company	1,363,300.0	1,535,962.1	1,492,855.0	1,388,420.7	1,216,897.9	1,165,432.9	1,975,590.0	2,310,190.0
Vanguard Group, Inc. (The)	16,847,205.7	18,124,782.1	18,632,344.3	20,475,549.3	20,672,757.1	20,966,890.7	20,941,509.3	22,362,729.3
Vantage Global Advisors, Inc.	118,162.1	9,089.3	9,089.3	232.9	-	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

				As of the Q	uarter Ended			
Institution Name	3/31/2000	6/30/2000	9/30/2000	12/31/2000	3/31/2001	6/30/2001	9/30/2001	12/31/2001
Vaughan Nelson Investment Management, L.P.	41,704.3	24,885.0	24,885.0	13,585.0	13,585.0	30,247.1	43,547.1	60,547.1
Vaughan, David Investments, Inc.	141,305.0	149,372.9	147,762.1	146,485.0	146,749.3	152,247.1	154,750.7	157,545.7
Vector Capital Management	-	-	-	900.0	-	32,300.0	49,400.0	12,700.0
Verizon Investment Management Corp	202,312.1	512,642.1	410,307.9	421,880.7	839,022.9	848,122.9	875,622.9	858,377.9
Vestor Capital Corp	-	-	-	-	-	-	102,380.0	103,955.0
Virginia Investment Counselors, Inc.	31,752.9	32,115.0	31,885.7	32,040.7	31,897.1	31,162.1	31,162.1	30,187.1
Virginia Retirement System	387,925.0	281,024.3	281,224.3	280,324.3	353,524.3	340,355.0	345,155.0	370,755.0
Voyageur Asset Management Inc	-	-	8,115.0	8,115.0	8,115.0	8,115.0	8,415.0	8,115.0
Voyageur Asset Management/MA	121,045.0	120,117.1	145,262.9	18,502.9	87,307.1	175,302.1	176,252.1	78,239.3
Wachovia Bank N.A./VA	599,377.1	609,085.0	589,940.7	572,822.9	563,524.3	559,105.7	553,954.3	550,152.9
Wachovia Corp New	4,877,725.0	7,650.0	5,150,360.7	-	4,755,315.0	2,666,525.0	5,488,707.1	5,363,777.1
Waddell & Reed Financial Inc.	4,366,315.0	8,244,920.0	6,875,937.1	4,291,577.1	5,347,832.9	5,560,287.9	7,647,460.7	7,423,190.7
Wade, G W Inc.	-	-	-	1,074.3	200.0	-	-	-
Walnut Asset Management LLC	-	-	-	-	22,412.1	22,412.1	21,140.0	20,047.1
Washington Capital Management, Inc.	60,570.7	29,675.0	24,400.0	-	-	-	-	-
Washington Trust Bank Trust & Inv. Services Division	3,970.0	-	-	-	-	-	-	5,472.9
Washington Trust Company	43,980.0	40,625.0	41,072.9	40,672.9	40,072.9	47,550.0	47,500.0	49,637.1
Waters, Parkerson & Company	-	-	-	7,710.0	7,782.1	5,392.1	5,582.1	5,857.1
WB Capital Management, Inc.	-	5,119.3	-	-	-	7,624.3	7,739.3	7,589.3
WCM Investment Management	93,890.7	-	-	-	-	-	-	-
Webster Bank NA	-	-	-	-	-	-	15,487.1	14,834.3
Wedgewood Investors, Inc.	-	-	-	-	4,500.0	6,700.0	6,600.0	12,200.0
Wedgewood Partners, Inc.	-	-	-	-	-	-	66,925.0	71,125.0
Weintraub Capital Management LLC	-	-	-	-	-	-	-	175,000.0
Weisberg & Fields, Inc.	25,100.0	24,100.0	24,100.0	24,100.0	22,219.3	22,219.3	22,219.3	19,999.3
Weiss, Peck & Greer LLC	91,500.0	586,190.7	580,037.1	495,550.7	529,139.3	191,192.9	46,467.9	29,097.9
Welch & Forbes, LLC	185,867.9	205,960.0	176,439.3	227,462.1	240,412.1	212,097.1	133,570.0	133,902.1
Welch Capital Partners, LLC	15,700.0	15,700.0	15,700.0	15,700.0	15,700.0	94,800.0	288,720.0	372,690.0
Wellington Management Company, LLP	64,739,892.9	427,804.3	515,944.3	534,644.3	485,044.3	67,811,305.0	76,437,819.3	88,859,857.9
Wellington, H.G. & Co., Inc.	-	4,260.7	4,292.1	4,292.1	19,090.7	9,290.0	-	-
Wells Capital Management Inc.	4,732.1	4,845.0	121,070.7	75,300.0	284,555.7	-	-	-
Wells Fargo & Company	26,415.0	18,015.0	3,705,455.0	2,753,345.7	2,990,910.7	3,397,589.3	3,032,649.3	3,708,842.1
Wells Fargo Bank Arizona, N.A.	17,869.3	16,410.0	13,985.0	9,960.0	5,700.0	-	-	-
Wells Fargo Bank Indiana, N.A.	67,250.7	67,050.7	61,382.1	61,127.1	57,827.1	-	-	-
Wells Fargo Bank Iowa, N.A.	-	62,302.9	53,800.7	49,192.1	49,047.1	-	-	-
Wells Fargo Bank Minnesota, N.A.	116,260.0	106,309.3	154,065.7	120,274.3	146,529.3	-	-	-
Wells Fargo Bank Montana, N.A.	39,190.7	38,329.3	37,219.3	36,609.3	36,174.3	-	-	-
Wells Fargo Bank N A	1,785,485.7	2,996,409.3	2,925,082.1	2,125,594.3	2,192,479.3	-	-	-

Exhibit-16
Shares Held by Institutions During the Class Period

As of the Quarter Ended 3/31/2000 6/30/2000 12/31/2001 **Institution Name** 9/30/2000 12/31/2000 3/31/2001 6/30/2001 9/30/2001 Wells Fargo Bank Nebraska, N.A. 5,240.0 7.240.0 6,940.0 6,940.0 6,100.0 Wells Fargo Bank New Mexico, NA 1.532.9 Wells Fargo Bank South Dakota, National Association 6,720.7 6,720.0 5,457.9 5,385.0 5,385.0 Wells Fargo Bank Texas, N.A. 24,065.7 109,024.3 100,039.3 32,195.0 31,050.0 Wells Fargo Bank West, N.A. 31,032.9 28,499.3 27,714.3 21,464.3 15,014.3 Wells Fargo Bank Wisconsin, N.A. 6,235.0 5,385.0 2,570.0 2,570.0 2,287.1 Wells Fargo Bank Wyoming, N.A. 15,100.0 _ Wells Fargo Investments, LLC 22,884.3 22,812.1 27,119.3 27,060.7 37,139.3 Wendell (David) Associates, Inc. 6.842.1 8,652.1 8,652.1 8,652.1 8,652.1 8.352.1 Wentworth, Hauser And Violich 28,955.0 27,175.0 23,820.0 24,645.0 24,450.0 339,477.9 608,510.0 827,282.1 Wesbanco Bank Inc. 23,150.0 25,810.7 26,355.0 26,145.0 26,175.7 24,475.7 23,647.9 23,647.9 West Ellis Investment Management Inc. 11,782.9 11,550.0 11,550.0 11,520.0 11,360.0 11,360.0 11,450.0 11,432.1 Western National Trust Company 16,059.3 15,559.3 15,999.3 15,999.3 46,785.0 52,929.3 60,687.1 48,690.0 Westfield Capital Management Company 15,120.0 15,120.0 15,120.0 14,945.0 14,945.0 14,945.0 14,945.0 14,945.0 Weston Asset Management, Inc/Az _ _ _ 21,500.0 20,900.0 21,400.0 20,900.0 14,300.0 Westpeak Global Advisors, L.P. 169,690.0 255,395.0 330,369.3 405,969.3 486,169.3 147,170.7 200,789.3 356,189.3 Westport Asset Management Inc. 9.800.0 9.520.0 9,520.0 9.520.0 9,520.0 9,520.0 9.520.0 9,520.0 Westridge Capital Management, Inc. 7,765.0 7,765.0 7,765.0 _ Westwood Management Corp.,(Dallas, Texas) 933,260.7 1,112,502.1 1,018,250.7 1,367,049.3 1,390,417.1 5,920.7 _ _ Whelan And Gratny Capital Management 16,000.0 16,000.0 16,000.0 16,000.0 16,000.0 16,000.0 16,000.0 White Oak Capital Management, Inc. 5,327.1 5,327.1 5,327.1 5,327.1 White Pine Capital, LLC 5,257.1 5,257.1 4,457.1 White River Global Fund Management, Inc. _ _ 32.1 Whitman, M.J. Advisors Inc./NY 47,522.9 Whitney, Thomas H.P. Jr. 50,982.9 51,182.9 48,722.9 49,122.9 49,122.9 49,122.9 Wilbanks, Smith & Thomas Asset Management, Inc. 47,635.7 83,107.1 219,577.9 238,815.7 263,675.7 273,504.3 276,820.7 282,604.3 Williams, Jones & Associates, Inc. 20,335.0 23,440.0 23,640.0 24,457.1 25,760.0 26,585.0 24,925.0 24,425.0 Wilmington Trust Company 343,337.1 128,905.0 113,075.7 81,322.9 73,507.1 70,030.7 75,899.3 76,742.1 Wilmington Trust FSB 7,340.0 10,234.3 12,365.0 12,732.1 17,670.7 17,715.0 20,084.3 33,794.3 Wilson/Bennett Capital Management 400.0 400.0 400.0 400.0 745.0 745.0 745.0 Windham Capital Management 63,040.0 _ _ _ _ _ _ _ 106,830.0 Winslow Capital Management 111,430.0 67,550.0 35,700.0 Wisconsin (State of) Investment Board 593,310.7 602,900.0 109,500.0 127,400.0 160,600.0 224,600.0 224,600.0 222,700.0 Wisconsin Capital Management 12,860.0 13,895.7 13,895.7 14,395.7 14,395.7 18,745.7 18,879.3 17,414.3 Woodford Capital Management, L.L.C. 18,800.0 3,300.0 61,650.0 _ Woodmont Investment Counsel 3,819.3 Woodstock Corporation 26,517.1 26,557.9 26,557.9 26,740.0 26,740.0 26,740.0 26,740.0 19,062.1 Wright Investors' Service 4,124.3 3,420.7 3,420.7 4,420.7 2,920.7 2,920.7 8,097.1

EXHIBIT 7

UNITED STATES DISTRICT COURT DISTRICT OF NEW JERSEY

ALASKA ELECTRICAL PENSION FUND, *et al.*, On Behalf of Themselves and All Others Similarly Situated,

Plaintiffs,

vs.

PHARMACIA CORPORATION, et al.,

Defendants.

Civil Action No. 3:09-1519 (AET) (Consolidated)

CLASS ACTION

REBUTTAL REPORT OF STEVEN P. FEINSTEIN, PH.D., CFA JULY 15, 2011

TABLE OF CONTENTS

SCOPE OF PROJECT AND REPORT
CONCLUSIONS
DR. LEHN SEES NO SCIENTIFIC BASIS
A STOCK PRICE NEED NOT RISE ON AN INFLATIONARY MISREPRESENTATION DATE
Nonetheless, Dr. Lehn's Event Study Indicates a Significant Stock Price Increase Following the Announcement of CLASS Results in April 2000
DR. LEHN'S EVENT STUDY IS FLAWED AND HIS CONCLUSION ABOUT 7 FEBRUARY 2001 IS WRONG5
Dr. Lehn Fails to Control for the Chemical Sector Effect
Dr. Lehn's Anomalous Choice of Peers and Index Construction Methodology
Despite Its Flaws, Dr. Lehn's Event Study Detects an Unusually Large Stock Price Decline on 7 February 2001
DR. LEHN'S TOO NARROW WINDOW LENGTH 8
Dr. Lehn's Window Premise is Inconsistent with His Three-Day Dummy Variables
Dr. Lehn Conducts a Two-Day Cumulative Test
Dr. Lehn Adopts Multiday Event Windows in His Published Research
THE CORRECTIVE DISCLOSURE ON 6 FEBRUARY 2001 WAS PARTIALLY COUNTERVAILED BY COMPANY STATEMENTS
Defendants Briefing Document Presented and Advocated the Six-Month Data 14
Pharmacia's Presentation at the Merrill Lynch Conference
Dr. Lehn Ignores the Defendants' Countervailing Briefing Document Posted on February 6 th
DR. LEHN'S CONTENTION THAT THE ADVISORY COMMITTEE'S DECISION WAS AN UNFORESEEN DEVELOPMENT IS INCORRECT AND CONTRARY TO THE FACTS 16
Defendants Knew At the Beginning of the Class Period That the Complete CLASS Data Did Not Support Deletion of the NSAID GI Warning
DR. LEHN'S CONTENTION ABOUT STOCK PRICE ADJUSTMENT SPEED IS INCONSISTENT WITH HIS DESCRIPTION OF THE ROLE OF ANALYST REPORTS 19
ANALYZING THE EFFECT OF VIOXX-RELATED INFORMATION THAT EMERGED ON 8 FEBRUARY 2001
Merck Event Study Results
INTRADAY PRICE MOVEMENTS ON 8 FEBRUARY 2001
Factual Errors in Dr. Lehn's Intraday Analysis27
Dr. Lehn Measures the Price Changes Incorrectly
Dr. Lehn Sets the Time of the Vioxx News Incorrectly
Price Response Following the Associated Press Wire

Pharmacia Stock Had Declined Prior to the Vioxx Announcement	32
Methodological Errors in Dr. Lehn's Intraday Analysis	32
Dr. Lehn Neglects to Control for Market and Peer Effects, Or for the Value of New Monsanto	32
Dr. Lehn Ignores the Noise and Errors in Intraday Price Data	33
Dr. Lehn Ignores the Special Statistical Testing that Intraday Price Analysis Requires	34
Dr. Lehn Fails to Consider Pharmacia Stock's Intraday Price Movement On 7 February 20	
THE SCIENTIFIC BASES DR. LEHN OVERLOOKED	
CRITIQUE OF THE FIORINO REPORT	38
Dr. Fiorino Draws Loss Causation Conclusions, But Runs No Event Study	38
Dr. Fiorino's Assumptions About Stock Return Significance Are Incorrect	40
Dr. Fiorino Contradicts His Own Argument About What Moves Stock Prices	41
Dr. Fiorino's Attribution of the Pharmacia Stock Price Decline to the Vioxx Announce is Unsupported, Inconsistent, and Incorrect	
Dr. Fiorino Disregards the Academic Literature on Reputation Effects	44
Dr. Fiorino's Opinions About Analyst Coverage and the Materiality of the CLASS Disclosure Belied by the Analyst Report He Coauthored	
Dr. Fiorino and His Team Did Not Issue Another Analyst Report Covering the Subsequ FDA Committee Announcements	
Dr. Fiorino's Opinion About the Speed of Price Adjustment is Belied by His Own Analys Report	
Dr. Fiorino's Analyst Report Illustrates That the February 6 th Disclosure Was Complex Confounded	
Dr. Fiorino's Attempt to Attribute the Price Decline to Other Events is Misguided	50
Dr. Fiorino's Intraday Analysis is Improperly Selective and Factually and Methodologica Flawed	•
Factual Errors in Dr. Fiorino's Analysis of Intraday Prices On 8 February 2001	51
Methodological Errors in Dr. Fiorino's Intraday Analysis	52
Dr. Fiorino Fails to Consider Pharmacia Stock's Intraday Price Movement On 7 Februa 2001	ary
Dr. Fiorino's Representations of Select Investment Manager Recollections is Unscientific Irrelevant	
Dr. Fiorino Misinterprets the Investment Professionals' Testimony	53
The Market Aggregates Disparate Views	53
LIMITING FACTORS	

SCOPE OF PROJECT AND REPORT

- 1. In my expert report dated 6 June 2011 ("Feinstein June Report" or "June Report"), I determined that Pharmacia stock traded in an efficient market over the course of the Class Period. I also determined that alleged misrepresentations and omissions caused the price of Pharmacia stock to be artificially inflated over the course of the Class Period. Corrective disclosures caused the inflation to dissipate, the stock price to fall, and investors to suffer losses of up to \$5.92 per share. I determined that aggregate damages estimated by a two-trader proportional trading model using a 90-day bounce-back period that commences on 8 February 2001 amount to \$1.38 billion, or \$1.59 billion assuming the 90-day bounce-back period begins 5 August 2001. Both estimates exclude prejudgment interest.
- 2. Subsequently, I was asked by Robbins Geller Rudman & Dowd LLP, counsel for the Plaintiffs, to consider and evaluate the arguments and conclusions in the Expert Report of Dr. Kenneth M. Lehn ("Lehn Report") and the Expert Report of Dr. Anthony Fiorino ("Fiorino Report") submitted by the Defendants in this matter. This report presents my analysis, findings, and conclusions relating to those two reports.
- 3. The documents I have reviewed and relied upon in the course of this engagement in addition to those cited in my previous report are listed in Exhibit-1. My credentials and compensation are presented in my June Report, as are prior testimonies provided as of the date of that report. Testimony I have provided since the submission of my first report is identified in Exhibit-2.

CONCLUSIONS

- 4. Neither the Lehn Report nor the Fiorino Report provide a basis for revising my conclusions of market efficiency, loss causation, and estimated aggregate damages.
- 5. Dr. Lehn errs in a number of important respects, rendering his analysis unreliable.
- 6. Dr. Fiorino's conclusions are based principally on conjecture and are unsupported by the generally accepted methodologies that are widely used to analyze stock return attribution and loss causation.

DR. LEHN SEES NO SCIENTIFIC BASIS

- 7. Dr. Lehn states that he observed no scientific basis indicating that the alleged misrepresentations and omissions about the CLASS data inflated Pharmacia's stock price.
 - "Based on my review of information that was in the public domain and event study analyses of Pharmacia's stock price that I conducted, it is my opinion that there is no scientific basis to conclude that the alleged misrepresentations in this matter were material. Therefore, there is no scientific basis to conclude that the alleged misrepresentations caused Pharmacia's stock price to be artificially inflated during the class period." Lehn Report, paragraph 9.
- 8. As discussed in my June Report, proper analysis proves the misrepresentations and omissions were material and caused Pharmacia's stock price to be inflated over the course of the Class Period, and that corrective disclosures caused the inflation to dissipate, thereby causing investor losses. Dr. Lehn's numerous methodological errors, oversights of important facts, and misconceptions about fundamental financial principles obscured his view of this scientific evidence.

A STOCK PRICE NEED NOT RISE ON AN INFLATIONARY MISREPRESENTATION DATE

9. Dr. Lehn asserts that Pharmacia's non-significant stock returns on certain misrepresentation dates are "inconsistent" with Plaintiffs' allegations that the misrepresentations inflated the Pharmacia stock price, and therefore indicate that the alleged misrepresentations and omissions did not cause the Pharmacia stock price to be artificially inflated.

"The event study analysis finds that Pharmacia's residual return on April 17, 2000 is *negative* 0.43% and not statistically significant. This result is inconsistent with the plaintiffs' allegation that the April 15-17, 2000 announcements artificially inflated Pharmacia's stock price." **Lehn Report, paragraph 49 (emphasis in original).**

"The event study analysis shows that Pharmacia's residual return on April 25, 2000 was *negative* 8.05% and statistically significant, which is inconsistent with Plaintiffs' claim that the alleged false statements made

during the analyst conference call artificially inflated Pharmacia's stock price."

Ibid., paragraph 62 (emphasis in original).

- 10. Dr. Lehn, however, is wrong. Material misrepresentations need not cause a statistically significant stock price rise, because misrepresentations may introduce artificial inflation by preventing a security price from falling rather than by causing the price to increase. The absence of a statistically significant stock price increase is therefore not inconsistent with there having been a new material misrepresentation or omission.
- 11. A review of the analyst commentary around the time the CLASS study results were released in April 2000 indicates that the market expected the CLASS study to demonstrate Celebrex's GI safety:

"The imminent completion of the CLASS study, conducted to demonstrate a reduction in the incidence of severe GI side effects of ulcers and bleeds, should result in a supplemental filing to remove the NSAID class warning from the label. This should prove to be the single most important event driving the expansion of the COX-2 inhibitors to a dominant position in arthritis treatment."

"Creation of New 'Porsche Pharma' Offers Potential to Be Better Than Biotech," by Richard Stover, Arnhold and S. Bleichroeder, Pharmacia analyst report, 22 March 2000, p. 16.

"The next big thing in the Celebrex story should take place around midyear, when the companies are expected to submit a supplemental NDA (sNDA) with the results of their outcomes trial (the CLASS trial)."
"Initiating Coverage With an Outperform Rating," by Jami Rubin, et al., Morgan Stanley Dean Witter, Pharmacia analyst report, 4 April 2000, p. 5.

"Nevertheless, we would expect COX-2 sales to accelerate after the release of the [CLASS and VIGOR] data, which could occur at DDW in May 2000."

"MRK's: VIOXX GI Outcomes Data – Details Part 1," by Christina Heuer and Mark Striker, Salomon Smith Barney, Merck analyst report, 28 March 2000, p. 3.

12. Given the market's expectation that the CLASS study would show Celebrex's superior GI safety profile relative to NSAIDs, truthful contradictory data would have cause a price decline, but confirmatory data would reasonably maintain the prior price level. The spread between the maintained price level and the lower level the price would have fallen to with

correct information is the artificial inflation introduced by the alleged misrepresentations and omissions.

Nonetheless, Dr. Lehn's Event Study Indicates a Significant Stock Price Increase Following the Announcement of CLASS Results in April 2000

- 13. Dr. Lehn contends the Pharmacia stock price did not rise significantly in reaction to the initial announcement about CLASS results on 17 April 2000. However, he only reports event study results for that one day, and does not consider that the complex information reported may have taken multiple days to be fully understood by the market and incorporated into the stock price.
- 14. According to the results of Dr. Lehn's own event study, as presented in Exhibit 4 of his report, the Pharmacia residual return on 19 April 2000 was positive and highly statistically significant. The three-day cumulative return on Pharmacia stock from 17 April to 19 April 2000 was also positive, large, and statistically significant.
- 15. The returns in Dr. Lehn's event study are not logarithmic returns, but rather are percent price changes. In order to compute cumulative returns, estimate the standard deviation of cumulative returns, and determine whether or not the three-day return on 17-19 April 2000 was statistically significant, it was necessary to replicate Dr. Lehn's regression analysis using logarithmic returns. For this exercise, I used the same market and peer group data that Dr. Lehn used, the same dummy variables, and the same estimation period. The results of this regression estimation are presented in Exhibit-3, and the corresponding event study results are presented in Exhibit-4.
- 16. As shown in Exhibit-4, the three-day cumulative return was 11.75%. The cumulative residual return was 8.92%, which corresponds to a *t*-statistic value of 2.67. This cumulative three-day residual price rise following the initial announcement of the CLASS results on 17 April 2000 was statistically significant at the 0.4% significance level, equivalent to a 99.60% confidence level, when computed using the same one-tailed test approach that Dr. Lehn uses in his event study (p-value equals 0.004). Using a two-tailed test, the price rise is significant at the 0.79% significance level, corresponding to a 0.0079 p-value and 99.21% confidence level.

17. No other information that emerged over the 17-19 April 2000 timeframe, aside from the reported CLASS results, explains the large significant stock price increase. Had Dr. Lehn appropriately widened the event study window, he would have observed this statistically significant stock price increase that followed the allegedly misleading initial CLASS results announcement.

DR. LEHN'S EVENT STUDY IS FLAWED AND HIS CONCLUSION ABOUT 7 FEBRUARY 2001 IS WRONG

- 18. Among the scientific bases that Dr. Lehn fails to observe for the conclusion that the misrepresentations and omissions caused investor losses is the statistical significance of the Pharmacia stock price decline that occurred on 7 February 2001 as the market disseminated and processed the corrective disclosure about the CLASS data.
- 19. As noted in my June Report, the Pharmacia stock price declined 2.67% on 7 February 2001. Appropriately accounting for the market effect and the pharmaceuticals sector, and factoring out the New Monsanto chemicals and agricultural business, the residual return on the Pharmacia Pharmaceuticals Stock Price was -4.17% that day. This is an unusually large one-day residual decline. With a *t*-statistic of -2.16, this residual return is statistically significant at the 3.1% significance level (p-value equals 0.031, confidence level is 96.9%).
- 20. Dr. Lehn fails to observe the statistical significance of the decline in Pharmacia value on 7 February 2001.

"Pharmacia's residual return on February 7, 2001 was negative 2.90% and not statistically significant." Lehn Report, paragraph 79.

21. Dr. Lehn's incorrect event study finding is the result of the numerous flaws in his event study, as detailed next.

Dr. Lehn Fails to Control for the Chemical Sector Effect

22. Dr. Lehn acknowledges that controlling for sector effects is important in the execution of an event study.

"To perform event study analyses in this matter, I examined the relation between Pharmacia's stock returns and the stock returns of general market indices and Pharmacia's industry peers."

Lehn Report, paragraph 44.

23. However, the peer companies Dr. Lehn includes in his peer group index are exclusively pharmaceutical companies.

"The Competitor Index is an equal-weighted index comprised of Bristol-Myers Squibb Co., Eli Lilly & Co., Schering-Plough Corp., AstraZeneca plc, GlaxoSmithKline plc, Abbott Laboratories, Novartis AG, American Home Products Corp. and Johnson & Johnson."
Lehn Report, paragraph 45, footnote 15.

24. Dr. Lehn neglects to consider that over the course of the Class Period, Pharmacia's businesses included not only the pharmaceutical business, but also a chemical and agricultural business. The Company noted that its peers include both pharmaceutical companies and chemical industry companies:

"Because Pharmacia continues in the pharmaceutical business and, through its ownership in new Monsanto, the agricultural business, and since Pharmacia stock has only been publicly traded since April 3, 2000, Pharmacia has continued to use the former Monsanto peer group. This peer group index includes AstraZeneca plc, Aventis, Bayer AG ADR, Dow Chemical Company, E.I. DuPont de Nemours and Company, and Novartis AG."

Pharmacia Corporation - Form DEF 14A, filed 13 March 2001, p. 13.

- 25. Dr. Lehn makes no effort to control for the effect of the chemical business on the Pharmacia stock price. He omits from his peer group Dow Chemical and DuPont, both of which Pharmacia cited as peers. His failure to appropriately account for peer effects reduces the power of Dr. Lehn's statistical tests to detect statistically significant price movements.
- 26. Dr. Lehn could have focused the event study more precisely on the pharmaceuticals portion of Pharmacia's business. He could have eliminated the chemical sector effect and the effect of any information related to the chemical and agricultural business by factoring out from Pharmacia's stock price the value of the New Monsanto business, as I did. But, he did not. Nor did he control for the chemical sector effect by including an appropriate

sector index in his event study regression. These deficiencies weaken his tests and distort his entire analysis, rendering his conclusions invalid.

Dr. Lehn's Anomalous Choice of Peers and Index Construction Methodology

- 27. Another anomaly in the design of Dr. Lehn's event study, which renders his statistical results highly questionable, is the inconsistency between the construction of his selected market index and the construction of his pharmaceuticals peer index. The NYSE market index, which Dr. Lehn used, is a value-weighted index. However, Dr. Lehn built his pharmaceuticals index as an equal-weighted index. ¹ Dr. Lehn offers no explanation for this inconsistency.
- 28. Additionally, Dr. Lehn provides no explanation for how he chose the companies to include in his pharmaceuticals peer group index. His index is neither as comprehensive as the Dow Jones U.S. Pharmaceutical Index, which I used as the basis for my peer index, nor does it even include the same pharmaceutical companies Pharmacia identified as its peers in its Proxy statement.

<u>Despite Its Flaws, Dr. Lehn's Event Study Detects an Unusually Large Stock Price Decline</u> on 7 February 2001

29. Notwithstanding the errors in his event study methodology, Dr. Lehn finds the residual stock price decline that occurred on 7 February 2001 to be severe and unusual. The *t*-statistic Dr. Lehn's test associates with the Pharmacia residual stock return on 7 February 2001 is -1.50. A Pharmacia stock price decline of this magnitude, with such an extreme negative *t*-statistic, is relatively rare. The probability that a randomly selected residual stock price decline would be of the magnitude observed, or greater, is only 6.75% (p-value equals 0.0675).² The residual decline, as Dr. Lehn measures it, would be among the top 6.75% worst residual declines experienced by Pharmacia stock. The rarity of declines this severe reasonably indicates that the observed 7 February 2001 stock price decline was not the result of random volatility, but rather was likely caused by Company-specific information concerning CLASS.

¹ Lehn Report, paragraph 45, footnote 15.

² Based on a one-tailed *t*-test, the methodology utilized by Dr. Lehn.

- 30. Generally, the alternative to an event study conclusion that a particular stock return was caused by company-specific information is the conclusion that the stock return was the result of random volatility. For a date on which a large stock price decline occurred, such a conclusion could potentially be justified if the date in question were selected arbitrarily. However, if the date was not selected arbitrarily, but was examined because it followed a major news announcement, attributing a large stock decline solely to random volatility becomes less reasonable.
- 31. This fundamental principle about statistical hypothesis testing is discussed in Shanken [1987].
 - "These examples demonstrate that the interpretation of a given p-value can vary substantially from one context to another. Although sample size is an important consideration, the mapping into a 'reasonable degree of belief' also depends on one's prior belief about the relevant alternative(s). Given this assessment, the evidence favors the hypothesis under which it is more 'likely' to have been observed."
 - "A Bayesian Approach to Testing Portfolio Efficiency," by Jay Shanken, *Journal of Financial Economics*, 1987, pp. 201-202.
- 32. The 7 February 2001 date was not selected arbitrarily, but was a date on which the market processed corrective information about the CLASS data. The large residual stock price decline that even Dr. Lehn's flawed test detected therefore cannot reasonably be attributed to coincidental random volatility. Rather, the proper conclusion based on the scientific evidence is that the disseminated information concerning CLASS caused the residual stock price decline observed that day.

DR. LEHN'S TOO NARROW WINDOW LENGTH

33. Dr. Lehn posits incorrectly that the effect on the Pharmacia stock price of the 6 February 2001 data posting was limited to the stock price decline that occurred that day. He wrongly assumes that the disclosure had no effect on the stock price on February 7th and 8th. While the stock price declines on February 7th and 8th were statistically significant, and the cumulative return from February 6th through the 8th was also statistically

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³ Lehn Report, paragraphs 70-87.

- significant, Dr. Lehn erroneously fails to associate these declines with the corrective disclosures because they did not occur on February 6th.
- 34. Apparently, Dr. Lehn's failure to properly attribute the 6-8 February stock price decline to the corrective disclosure that began on 6 February and continued on 7 February 2001 stems in part from his misreading of the academic literature on proper window length, in particular, the Patell and Wolfson [1984] study. In his report, Dr. Lehn provides an incomplete (and therefore misconstrued) portion of a comment Brealey and Myers made about the Patell and Wolfson study:

"As discussed in Brealey and Myers, 'prices will adjust immediately to public information' in an efficient market. Brealey and Myers cite a study by Patell and Wolfson (1984), which examined how companies' stock prices reacted to public announcements of earnings and dividends and found that the major part of the adjustment in price occurs within 5 to 10 minutes of the announcement."

Lehn Report, paragraph 41 (internal citations omitted).

35. The complete quote from Brealey and Myers, including the portion Dr. Lehn omitted, states specifically that the rapid speed of stock price adjustment Patell and Wolfson observed pertains only to announcements of earnings and dividends:

"A study by Patell and Wolfson shows just how fast prices move when new information becomes available. They found that, when a firm published its latest earnings or announces a dividend change, the major part of the adjustment in price occurs within 5 to 10 minutes of the announcement."

Principles of Corporate Finance, 7th edition, by Richard A. Brealey and Stewart C. Myers, McGraw-Hill Irwin, 2007, p. 353 (internal citations omitted).

36. As I noted in my June Report, Patell and Wolfson explained that less regular information releases – like the CLASS data – could impact stock prices over a more protracted period:

"It is possible that the adjustment intervals would be significantly longer for smaller firms, or for other, less regular announcements made by our sample firms."

"The Intraday Speed of Adjustment of Stock Prices to Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, *Journal of Financial Economics*, 1984, p. 250.

37. Not only do Patell and Wolfson state that less regular announcements could elicit more protracted stock price adjustments, but they find that even for earnings and dividend announcements, the price reaction persists beyond the first day.

"Finally, we must consider the relation between the mean return tests where trading profits largely disappear in five to ten minutes (although we do detect significant mean returns in the overnight period and at the opening of trading on the following day), and the variance and serial correlation tests where disturbances persist for several hours after public disclosure and extend well into the following day."

"The Intraday Speed of Adjustment of Stock Prices to Earnings and Dividend Announcements," by James M. Patell and Mark A. Wolfson, *Journal of Financial Economics*, 1984, p. 250.

"We find large disturbances in the correlation pattern immediately following the release of earnings numbers and dividend changes; the major portion of the announcement effect dissipates within sixty to ninety minutes, although, as in the variance tests, *statistically significant departures continue into the following day*." *Ibid.*, p. 224 (emphasis added).

- 38. Moreover, as noted in my original report, the use of multiday event windows, which inherently recognize that stock responses may span multiple days, is common in the academic literature. Of the 21 articles reviewed in the Bruner [2002] survey article that utilized the cumulative event study methodology, as shown in Table-1 (below) 17 were found to use event windows of three days or longer.
- 39. Dr. Lehn's failure to recognize that stock price reactions persist beyond the day of the announcement is at odds with the authoritative literature that even he cites. Moreover, he fails to consider that the corrective disclosure in this case was the type of information that Patell and Wolfson noted could have a more protracted effect.

Table-1		
Study	Event Window	Length of Window
Langetieg (1978)	(-120,0)	121 Days
Bradley, Desai & Kim (1988)	(-5,5)	11 Days
Jarrell & Poulsen (1989)	(-20,10)	31 Days
Lang, Stultz & Walkling (1989)	(-5,5)	11 Days
Franks, Harris & Titman (1991)	(-5,5)	11 Days
Healy, Palepu & Ruback (1992)	(-5,5)	11 Days
Kaplan & Weisbach (1992)	(-5,5)	11 Days
Berkovitch & Narayanan	(-5,5)	11 Days
Smith & Kim (1994)	(-5,5)	11 Days
Schwert (1996)	(-42,126)	169 Days
Loughran & Vijh (1997)	(-2,1250)	1,253 Days
Maquieira, Megginson & Nail (1998)	(-60,60)	121 days
Eckbo & Thorburn (2000)	(-40,0)	41 Days
Leeth & Borg (2000)	(-40,0)	41 Days
DeLong (2001)	(-10,1)	12 Days
Houston et al. (2001)	(-4,1)	6 Days
Mulherin & Boone (2000)	(-1, +1)	3 Days

Dr. Lehn's Window Premise is Inconsistent with His Three-Day Dummy Variables

- 40. Contrary to his contention that stock price reactions occur "within 5 to 10 minutes of the announcement," in his event study design Dr. Lehn implicitly acknowledges that stock price reactions often extend beyond the first day of an information release. For his event study regression, Dr. Lehn explains it is necessary to use dummy variables (which he calls "indicator variables") to "remove any influence that the Complaint Days might otherwise have had on the regression model's results."
- 41. Dr. Lehn does not control only for each of the "Complaint Days" on which the Complaint states relevant news emerged. Rather, Dr. Lehn employs dummy variables to control for the "Complaint Day," the trading day prior, and the trading day after a three-day window.

"To control for the Complaint Days in the regression model used in the event study analysis, I included indicator variables for the date of each Complaint Day, as well as the day before and the day after each Complaint

⁴ Lehn Report, paragraph 41.

⁵ *Ibid.*, paragraph 45.

Day. The indicator variables remove any influence that the Complaint Days might otherwise have had on the regression model's results." **Lehn Report, paragraph 45.**

42. Due to the timing of certain "Complaint Days," Dr. Lehn applies dummy variables for up to six consecutive trading days. If Dr. Lehn truly believes information effects are confined to the first five or ten minutes after an announcement, he would not have found it necessary to dummy out three days for each announcement mentioned in the Complaint.

Dr. Lehn Conducts a Two-Day Cumulative Test

43. Dr. Lehn further acknowledges that information may impact a stock price beyond the first day when he runs a two-day cumulative event study test for the period 6-7 February 2001.⁶

"Pharmacia's residual return on February 7, 2001 was negative 2.90% and not statistically significant. Pharmacia's two-day residual return on February 6–7, 2001 was negative 3.10% and not statistically significant." **Lehn Report, paragraph 79.**

44. That Dr. Lehn considers it important to test for a significant reaction over the two days, 6-7 February 2001, implies that he accepts that a stock price reaction may extend beyond the first few minutes on the day of the announcement. Given this fact, his failure to detect the significant stock price reaction of 7 February 2001, or to extend the cumulative event study test to include 8 February 2001 (which three-day cumulative return was statistically significant), renders his analysis incomplete and his conclusion misguided.

⁶ While he attempts to conduct a 2-day cumulative event study for 6-7 February 2001, Dr. Lehn computes the single-day and cumulative residual returns incorrectly. The returns in Dr. Lehn's event study are percent price changes rather than logarithmic returns. Unlike logarithmic returns, percent price changes do not aggregate residual and explained returns additively. For percent price changes, the residual return is not simply the actual return minus the explained return. As such, Dr. Lehn's single-day residual returns are computed incorrectly. Similarly, while two logarithmic residual returns can be summed to arrive at a cumulative 2-day residual return, the percentage price changes that Dr. Lehn uses cannot be added thusly. Consequently, his cumulative residual return is also computed incorrectly.

Dr. Lehn Adopts Multiday Event Windows in His Published Research

45. While in the current case Dr. Lehn confines potential stock price reactions to short intervals following the corrective disclosures, in his published work he examines very long event windows to investigate price responses to announcements.

"This paper employs event study methodology to measure the stock price effects associated with merger and acquisition announcements. ... We estimate the abnormal returns for the acquiring firms on each day during the period of 5 trading days before the merger and acquisition announcements through 20 days after the announcements (i.e. [-5, 20]). As reported below, we estimate cumulative abnormal returns for acquiring firms over several windows surrounding the announcement dates." "CEO Turnover after Acquisitions: Are Bad Bidders Fired?" by Kenneth M. Lehn and Mengxin Zhao, *Journal of Finance*, August 2006, p. 1768.

"CAR is the cumulative abnormal return to acquiring firms around the announcements of their respective mergers and acquisitions, measured over several event windows, including the abnormal return on the announcement date [0], the CAR measured one trading day before through one trading day after the announcement date [-1,1], the CAR measured one trading day before through five trading days after the announcement date [-1, 5], the CAR measured five trading days before through five trading days after the announcement date [-5, 5], and the CAR measured 5 trading days before through 20 trading days after the announcement date [-5, 20]." *Ibid.*, p. 1769.

46. In the article from which these quotes were taken, Dr. Lehn considered event windows extending 20 days after the announcements. This treatment is inconsistent with his premise in the current case that a stock price fully adjusts to new information within minutes of an announcement.

THE CORRECTIVE DISCLOSURE ON 6 FEBRUARY 2001 WAS PARTIALLY COUNTERVAILED BY COMPANY STATEMENTS

47. One reason why the corrective disclosure that began on 6 February 2001 took multiple days to be processed by the market and incorporated into the Pharmacia stock price is that the Company's briefing document, which was posted with the three FDA reports, partially confounded the disclosure, slowing the processing of the new information.

- 48. While investors would have ultimately arrived at the conclusion that the full CLASS data did not support the requested label modification, the subsequent FDA analysis and discussion facilitated that process.
- 49. These facts support the three-day window as the most appropriate event study timeframe.

Defendants Briefing Document Presented and Advocated the Six-Month Data

50. The Company's briefing document, which was posted on the FDA website concurrently with three FDA reviewer reports, contained the 6-month results as well as a justification for analyzing the six-month CLASS results. The Company's briefing document stated that due to the number of patients that withdrew from the study, the standard analysis may be "misleading" and the six-month CLASS results are more reliable to determine the safety profile of Celebrex.

> "Confounding due to this differential loss of high-risk patients from the study is minimized in the six-month analysis." CLASS Advisory Committee Briefing Document, dated 7 February 2001, p. 40.

"Withdrawals due to moderate-to-severe GI symptoms were also significantly higher in the diclofenac group versus the other treatment arms (9.5% for diclofenac vs.7.5% for celecoxib and ibuprofen, p<0.05 for diclofenac vs. celecoxib). This significantly higher withdrawal rate due to moderate-to-severe GI symptoms for the diclofenac group thus led to the early withdrawal of patients at risk of an endpoint event within this treatment arm, biasing the observed event rates associated with diclofenac (i.e., informative censoring). Therefore, standard analysis and interpretation of the event rates associated in this study with diclofenac may be misleading."

Ibid., pp. 42-43.

51. Rather than correcting their alleged misrepresentations, by advocating for the conclusions based on the six-month data, the Company's briefing document perpetuated the alleged misinformation, which impeded or slowed the market's complete and correct evaluation of the CLASS results contained in the three FDA reviewer reports, which had been simultaneously posted on the FDA website on or about 6 February 2001.

⁷ Affidavit of Howard R. Philips, 18 October 2010, Attachments A – C.

52. The market was further slowed or impeded in its evaluation of the entire CLASS data on 6 February 2001, because at that time it appeared to investors that the editors at JAMA endorsed defendants' six month analysis, having published that analysis five months earlier. It was not until August of 2001 that investors learned Defendants had deceived JAMA into publishing the six month analysis.

Pharmacia's Presentation at the Merrill Lynch Conference

- 53. Also on 6 February 2001, during the Merrill Lynch Global Pharmaceutical, Medical Device & Biotechnology Conference, Pharmacia CEO Fred Hassan ("Hassan") appears to have made a presentation about Pharmacia. As part of the presentation, Mr. Hassan appears to have highlighted the six-month CLASS results, citing the JAMA article touting Celebrex's 48%-66% reduction in ulcer complications. Those results, based only on the six-month CLASS data, suggested a Celebrex safety advantage, while the full data set did not.
- Consequently, the analysts and investors received a mixed message on February 6th. The 54. corrective disclosure in the FDA reports, explaining that it was unjustified and inappropriate to conclude from the six month data that Celebrex had a safety advantage, was confounded by the Company's briefing document and possibly the Merrill Lynch presentation.

Dr. Lehn Ignores the Defendants' Countervailing Briefing Document Posted on February 6th

55. In his discussion of Pharmacia's stock price reaction to the release of the FDA briefing documents, Dr. Lehn asserts that "all of the allegedly material false and misleading information that the plaintiffs contend should have been revealed on April 17, 2000 was known by the market no later than February 6, 2001." Dr. Lehn stated that he "found no other information released about Pharmacia on February 6, 2001 that conceivably could have affected Pharmacia's stock price."10

⁸ Exhibit 391 at DEFS 04133626. ⁹ Lehn Report, paragraph 73.

¹⁰ *Ibid.*, paragraph 74.

- 56. Dr. Lehn is wrong. He disregarded the Company's countervailing representations that day, including those in the Company's briefing document, which reasonably would have confused the market.
- 57. Considering the confounding representations made on February 6th, the complexity of the data in the posted documents, and Defendants' prior misrepresentations and omissions about the CLASS results, it is reasonable to conclude that the market required multiple days to analyze the information and fully and correctly incorporate it into the Pharmacia stock price, particularly given the complex and scientific nature of the CLASS data.

DR. LEHN'S CONTENTION THAT THE ADVISORY COMMITTEE'S DECISION WAS AN UNFORESEEN DEVELOPMENT IS INCORRECT AND CONTRARY TO THE FACTS

58. In his discussion of 7 February 2001, Dr. Lehn contends that the Advisory Committee's decision not to recommend a label change for Celebrex was an unforeseen intervening event, and still would have been so even if the full CLASS results had been disclosed at the beginning of the Class Period.

"It is inappropriate to use the entirety of the residual decline in Pharmacia's stock price on February 7, 2001 as a measure of alleged damages for several reasons. ... Second, any use of the February 7, 2001 residual stock price decline to measure alleged stock price inflation due to the alleged misstatements during the class period rests on a false assumption that the news on February 7, 2001 could have been disclosed earlier (e.g., at the start of the class period). Even if during the class period Pharmacia had described the CLASS study results as Plaintiffs alleged it should have, Pharmacia could not have predicted the specific reaction by the Committee in the February 7, 2001 hearing. Nor could the market have predicted the specific reaction under those circumstances."

Lehn Report, paragraph 80.

59. The Advisory Committee's recommendation was not an event that was completely unforeseen and unrelated to the alleged fraud, as Dr. Lehn asserts. Rather, the recommendation was the natural consequence of the disclosure of the previously omitted facts. As such, the deliberations and recommendation served to clarify the disclosure.

- 60. Plaintiffs allege that Defendants concealed the full CLASS study data in order to falsely claim a GI safety advantage for Celebrex over other NSAIDs. The alleged fraud concealed the truth, *i.e.*, the full CLASS study data, in order to publish the favorable truncated data to lead investors to believe Pharmacia was likely to obtain a favorable label change from the FDA. But as Defendants knew by the beginning of the Class Period, since they had the full CLASS data at that time, and as was finally revealed to investors in February 2001, the full CLASS data showed no safety advantage to Celebrex which would merit the requested label change. Thus, the Advisory Committee's recommendation was an event that the market could have predicted before 7 February 2001 if the market had been in possession of the full CLASS data.
- 61. If the market had access to the full CLASS data, free of Defendants' attempts to conceal it and/or obfuscate it before 7 February 2001, the Advisory Committee's actions would have been anticipated. The Advisory Committee's recommendation on 7 February 2001 was based upon consideration of the entire study period results (including comparisons with diclofenac) which were publicly disclosed for the first time on 6 February 2001 in the form of the three FDA reports posted on the FDA's website (although this information was obfuscated by the Company's briefing document posted the same day). The full data showed no Celebrex safety advantage, and therefore indicated that the requested label modification was not warranted.
- 62. Indeed, after evaluating results from the entire study period including comparisons with diclofenac, the members of the Advisory Committee reached the same conclusions that the market would have reached at the beginning of the Class Period had the full CLASS data been disclosed then. The full CLASS study data did not prove Celebrex to be safer than traditional NSAIDs.

"After looking at the data presented,[11] I can come to the conclusion that I can't conclude that at the present time, so I would have to say at the present time, from what I have seen, the upper GI toxicity we are talking about—and that is a question to ask—upper GI safety appears to be similar to those, to at least again to the different presentations, I cannot say that it is different from the standard NSAIDs.

. . .

¹¹ Data from the entire study period including comparisons with diclofenac were presented at the advisory committee hearing on 7 February 2001. See Affidavit of Howard R. Philips, 18 October 2010, Attachments A – C.

Again, the sponsors have said this is one study with two comparator NSAIDs. Therefore, putting the data together, I can't come up with a difference."

Dr. Michael Wolfe, Transcript of the FDA Arthritis Advisory Committee, 7 February 2001, pp. 169-170.

"I agree if you are going to combine both NSAID comparators together, you didn't see a difference..."

Dr. James Williams, Transcript of the FDA Arthritis Advisory Committee, 7 February 2001, p. 170.

"It is certainly clear that no difference has been shown for the complicated ulcer. ... So, I think that if one is talking about an advantage, it ought to show up clear through all adverse events, and not just when we look at some specific category of adverse event."

Dr. Janet Elashoff, Transcript of the FDA Arthritis Advisory Committee, 7 February 2001, pp. 171-172.

- 63. The Advisory Committee (because of the timing of the meeting shortly after the posting of the reports) announced its recommendation before analysts were able to fully understand the reports. Unlike the analysts who saw the entire study period results for the first time on 6 February 2001, the FDA had access to the full data set for months prior to the meeting. An unhurried, thorough consideration of the full data set revealed that Pharmacia would not get a removal of the NSAID GI warning as the full data set revealed that Celebrex had not proven a GI safety advantage. Thus the Advisory Committee recommendation was based upon the same information that was publicly disclosed for the first time on 6 February 2001, and was the natural and logical consequence of that disclosure.
- 64. Had the market had all the CLASS data at the beginning of the Class Period, it would have known then that Celebrex had not proven a GI safety advantage over the comparator NSAIDs. The market would therefore have understood that the Advisory Committee would have no basis for recommending the desired label change.
- 65. Dr. Lehn's depiction of the Advisory Committee's actions as being a closely contested decision, or an adjudication of a query about which reasonable people might disagree, is not supported by the evidence. Given the full CLASS data, the event was more a foregone conclusion than an unforeseen development.

<u>Defendants Knew At the Beginning of the Class Period That the Complete CLASS Data</u> <u>Did Not Support Deletion of the NSAID GI Warning</u>

66. Further supporting my conclusion that the market would have known the Advisory Committee would have recommended against a label change at the beginning of the Class Period if it had the full CLASS data, are internal communications by the Defendants. Internal communications reveal that Defendants knew from the start of the Class Period that the full CLASS study results did not support the desired label change.

"[Lori Shafner] *If we know that we will not achieve the original intent to modify the NSAID GI Warning* should we communicate to Pfizer Sr. Mgmt?

. . .

[Mona Wahba] The *data won't support the original intent of modify the GI warning*, agree with you need to be communicated." Internal Email, dated 16-17 April 2000, Exhibit 414 at DEFS 00122679 (emphasis added).

"As you review this label, we would like you to consider the following:

- Previous discussions with management regarding potential labeling scenarios once the CLASS data was available included an option to remove the GI warning.
- Based on the results of the trial, this approach no longer seems appropriate."

Internal Memorandum, "Label Review Meeting," dated 27 April 2000, Exhibit 130 at DEFS 01433613 (emphasis added).

67. Defendants knew from the start of the Class Period that the entire CLASS study results did not support deletion of the NSAID GI warning on the Celebrex product label.

DR. LEHN'S CONTENTION ABOUT STOCK PRICE ADJUSTMENT SPEED IS INCONSISTENT WITH HIS DESCRIPTION OF THE ROLE OF ANALYST REPORTS

- 68. Dr. Lehn acknowledges that the market for Pharmacia stock was efficient. As noted in my June Report, the academic literature and courts have observed that analyst coverage promotes market efficiency.
- 69. Dr. Lehn concurs that analysts play an important role in processing information and disseminating it to the marketplace.

"In order to provide additional context and insight regarding how the market perceived certain announcements, I examine commentary by securities analysts who followed Pharmacia. Securities analysts are investment professionals who follow a specific company (or set of companies) closely. Their 'primary responsibility' is:

'...the publication of regular written reports covering the investment attributes of specific companies. These research reports have several functions. First, they review new corporate information such as earnings announcements and management changes. Second, they suggest investment ideas for stocks in the analyst's industry, based, in part, on the new information. Third, they provide written earnings projections to the reader and present formal buy/sell recommendations to the firm's clients.'

Hence, the views of securities analysts provide additional context that can inform an opinion as to whether information is material." Lehn Report, paragraphs 36-37 (internal citation omitted).

- 70. It follows that if analysts required multiple days to process the corrective disclosures about the CLASS data, the complete market price reaction would take at least that same amount of time.
- 71. While Dr. Lehn accepts the principles that analyst coverage facilitates the processing and dissemination of information, and that analyst reports indicate the market's understanding of information, he fails to consider that some analysts published their analysis of the CLASS data disclosures on 7 February and 8 February 2001.

"The FDA's written review of the Celebrex sNDA seeking modification or elimination of the NSAID class label was issued yesterday (in advance of today's FDA Advisory Panel Meeting). These reports are more negative than anticipated, raising the possibility of a contentious Advisory Panel review today.

The FDA raised four key issues: (1) Pharmacia's choice to analyze the 26 week data exclusively (vs. 52 week data) is incorrect; (2) Celebrex failed to show any statistically significant benefit over one of the comparator NSAIDs (diclofenac); (3) Pharmacia failed to adjust for multiple subgroup analyses, rendering even those P values less than 0.05 in doubt; and (4) ibuprofen plus aspirin was statistically superior to either Celebrex or diclofenac plus aspirin (and better than ibuprofen alone).

. . .

Both the Gastrointestinal Reviewer and the Statistical Reviewer so strongly disagreed with Pharmacia's analysis of the data at the 26 week time point that both specifically did not discuss or treat those results, focusing instead their entire discussion on the end-of-study data.

Because the event rates for diclofenac and ibuprofen plateaued after 26 weeks but continued to rise for Celebrex, the differences between Celebrex and the comparators was less robust at the end-of-study time point. In particular, the statistically significant reduction in the primary endpoint (serious upper GI events) seen in the non-aspirin subgroup at 26 weeks is not statistically significant at 52 weeks (Table I)."

"FDA Review Of Celebrex More Negative Than Expected Panel Could Be Controversial," by Carl Seiden, *et al.*, J.P. Morgan Securities, analyst report, 7 February 2001, at JPMC 001610-12.

"In reviewing Celebrex, consensus among the Advisory Panel members was that PHA/PFE's Celebrex did not establish a 'meaningful safety advantage' in comparison to NSAIDs (ibuprofen and diclofenac). With the data available, the committee could not justify a change in Celebrex's label."

"FDA Unlikely to Improve Celebrex Label," by Joseph P. Riccardo, *et al.*, Bear Stearns, analyst report, 7 February 2001, at DEFEX 008229.

"Celebrex shows a benefit in reducing 'symptomatic ulcers' vs other NSAIDs. Overall, Celebrex may be safer than the 'old NSAIDs', but the CLASS trial (at a dose 2-4x normal) did not convince the FDA committee."

"PHA: FDA Reviews Celebrex & Vioxx Safety Data," by Mark Striker and George Grofik, Salomon Smith Barney, analyst report, 7 February 2001 (effective date is 2/8), p. 1.

"FDA Panel Rejects Label Change. An FDA Advisory Committee rejected the notion that Celebrex, a COX-2 inhibitor, has a better safety profile NSAIDs. PHA shares sold off (3+%) based on concerns that Celebrex's growth will stagnate without a label change."

"CLASS Flunks Out," by Mara Goldstein, et al., CIBC, analyst report, 8 February 2001, p. 1.

"Yesterday, Pharmacia presented data on Celebrex from the CLASS (Celecoxib Long-term Arthritis Safety Study) to the FDA advisory committee. The panel rejected the drug's claim that it is gentler on the stomach than the older nonsteroidal medications (NSAIDs) and recommended that the FDA deny Pharmacia's request for an improved label that would differentiate it from the older NSAIDs, which contain a warning for gastrointestinal toxicity."

"Pharmaceuticals: Disappointing FDA Review of GI Safety Data for Celebrex," by Jeffrey Chaffkin and C.J. Sylvester, UBS Warburg, analyst report, 8 February 2001, at DEFEX 009148.

"The FDA Arthritis Advisory Committee recommended no change in Celebrex's label during discussions Wednesday. This labeling posture resulted from statistical complications within the CLASS clinical trial, including Celebrex's failure to achieve a statistically significant improvement in its complicated ulcer primary endpoint and FDA requests for further study on the effects of COX-2 in combination with aspirin."

"No Change Recommended for Celebrex Labeling: "Status Quo' Mildly Disappointing, but Manageable," by Kenneth Kulju, et al., Credit Suisse First Boston, analyst report, 8 February 2001, p. 1.

- 72. While Dr. Lehn was aware of these analyst reports, ¹² he fails to appreciate that they indicate that the CLASS data disclosure was voluminous and complex to an extent that the market required the time through 8 February 2001 to digest it and incorporate it into the Pharmacia stock price.
- 73. Dr. Lehn contends the price movements on February 7th and 8th were unrelated to the disclosure that began on February 6th and continued on February 7th. His contention is inconsistent with the facts of this case, with financial principles, with the literature Dr. Lehn cites, with his own methodology in this case, and with his prior published work. The price reaction to the CLASS disclosure extended to February 7th and 8th. The fact that the Pharmacia Pharmaceuticals Stock Price movements on those days and cumulatively over 6-8 February 2001 were statistically significant proves that the misrepresentations and omissions about the CLASS data inflated the Pharmacia stock price and caused investor losses.

ANALYZING THE EFFECT OF VIOXX-RELATED INFORMATION THAT EMERGED ON 8 FEBRUARY 2001

74. Dr. Lehn contends that Pharmacia's statistically significant stock price decline on 8
February 2001 was caused by the news that Merck's competing product, Vioxx, received approval from the FDA for a favorable label change. Dr. Lehn reasons that significant good news for Merck and Vioxx would be significant bad news for Pharmacia and Celebrex.

¹² See for example: Lehn Report, paragraph 78.

"Good news about Cox-2 Inhibitors would move Pharmacia and Merck's prices in the same direction; good news for Vioxx relative to Celebrex would be expected to move Pharmacia and Merck's prices in the opposite direction."

Lehn Report, paragraph 45, footnote 15.

75. To assess whether the Pharmacia stock price decline on 8 February 2001 was caused by the positive development pertaining to Vioxx, I conducted an event study on Merck stock to determine if the new Vioxx information was significant. Dr. Lehn stated that this is the correct approach to determine whether the information is both new and important to investors.

"If the information released on a particular day is both new and material to investors, then the residual return on the event date should be significantly different from zero."

Lehn Report, paragraph 46.

76. In particular, one would reasonably expect that material news about Vioxx would have a significant impact on the price of Merck stock because Vioxx was extremely important to Merck. Merck was bracing for impending patent expirations and was counting on Vioxx to maintain company revenues and profit.

"Merck is counting on Vioxx to help the company weather upcoming patent expirations on three of its best-selling drugs."
"FOCUS-FDA Panel Backs Merck's Vioxx Painkiller," by Lisa Richwine, *Reuters News*, 21 April 1999.

"Merck needs Vioxx to be a winner. After years of rapid sales and profit growth, patents on some of its biggest sellers will soon expire, opening the door to less-expensive generic versions. The company is also grappling with a slowdown in sales growth of its big cholesterol-drug franchise and was recently hit with a delay in developing a new antidepressant." "Merck's Financial Health Hinges on Sales of Its New Arthritis Pill," by Robert Langreth, *Dow Jones Business News*, 14 April 1999.

"But Dr. Scolnick [the president of Merck Research Labs] gives plenty of credit to the way things broke Merck's way during Vioxx's development. 'If those first two compounds had failed in human trials and we had had

by chance to rely on the fifth or sixth one' years later, he says, 'we would be a very different company.'"

"The Cure: With Big Drugs Dying, Merck Didn't Merge – It Found New Ones – Some Inspired Research, Aided By a Bit of Luck, Saves Company's Independence – The Path to a Novel Painkiller," by Gardiner Harris, *Wall Street Journal*, 10 January 2001.

- 77. In 2001, Vioxx accounted for 13% of Merck's sales. ¹³ Analysts estimated the gross profit margin on Vioxx to be in excess of 90%. ¹⁴ With that profit margin, Vioxx accounted for approximately 13.1% of Merck's gross profit in 2001. ¹⁵ Bear Stearns analysts anticipated that Vioxx would account for 17.1% of Merck's revenue in 2002. ¹⁶ Consequently, Merck relied on Vioxx for a substantial portion of its current and forecasted sales.
- 78. Nonetheless, as explained next, the news about Vioxx that emerged on 8 February 2001 had no statistically significant impact on the price of Merck stock.
- 79. I constructed the Merck event study in the same fashion as I conducted the Pharmacia Pharmaceuticals Stock Price event study in my June Report. I used the same Market Index for the market factor, and I used the Pharmaceutical Index (which had Pharmacia, Pfizer, and Merck removed) for the sector index. ¹⁷ I ran the regression over the same control period, 19 October 2000 through 18 October 2001.
- 80. I utilized dummy variables for each day from 6 February through 12 February 2001 to control for the potential effects of both Vioxx- and Celebrex-related news that was released during this period.
- 81. On 7 February 2001, in addition to the Advisory Committee's decision on Celebrex, the FDA posted reviewer reports on its website that contained and analyzed the VIGOR study data. Similar to the CLASS briefing documents, these reviewer reports were posted prior to the Advisory Committee's review of the VIGOR study that would occur the following day.
- 82. Merck stock prices, dividends, and returns are presented in Exhibit-5. The regression results are presented in Exhibit-6. The event study results are shown in Exhibit-7.

¹³ Deutsche Banc Alex. Brown, Merck analyst report, 29 January 2001, p. 5.

¹⁴ Natexis Bleichroeder Inc., Merck analyst report, 1 October 2004, p. 13.

¹⁵ Merck & Co., Inc. Form 10-K for the Fiscal Year Ended 31 December 2003, filed 10 March 2004, p. 21.

¹⁶ "FDA Unlikely to Improve Celebrex Label," by Joseph P. Riccardo, *et al.*, Bear Stearns, Pharmacia analyst report, 7 February 2001, at DEFEX 008231.

¹⁷ In its Proxy statement Merck compared its performance to the Dow Jones Pharmaceutical Index. See: Merck & Co., Inc. Form DEF 14A, filed 22 March 2001, p. 22.

- 83. As described next, the news about Vioxx, which Dr. Lehn considers positive enough to cause the price of Pharmacia stock to decline significantly, had no significant impact on the price of Merck stock. Merck's stock price did not rise significantly on 8 February 2001, over the three-day period beginning on 7 February 2001, or over the three-day period beginning 8 February 2001. By Dr. Lehn's reasoning, the Vioxx news was not new material good news for Vioxx, therefore this news could not have been responsible for Pharmacia's decline.
- 84. Thus, as I concluded in my June Report, the cause of the statistically significant decline in Pharmacia's stock price on 8 February 2001 was news specific to Pharmacia and the disclosures about CLASS.

Merck Event Study Results

- 85. On 8 February 2001, Merck's stock price increased 1.36%. The Market Index declined 0.65%, and the Pharmaceutical Index rose 0.43%. According to the regression model, the Merck stock residual return that day was 0.95%. This is not an unusually large one-day residual increase. With a *t*-statistic of 0.65, this residual return is not statistically significant at the standard 5.0% significance level, or any other acceptable level (p-value equals 0.517).
- 86. The following day, 9 February 2001, Merck's residual return was -0.46%. This too is not an unusually large one-day residual return. With a *t*-statistic of -0.32, this residual return is not statistically significant at the standard 5.0% significance level, or any other reasonable significance level (p-value equals 0.752).
- 87. The following trading day, 12 February 2001, Merck's residual return was -0.48%, again, not an unusually large one-day residual return. With a *t*-statistic of -0.33, this residual return is not statistically significant at the standard 5.0% significance level, or any other reasonable significance level (p-value equals 0.743).
- 88. Over the three-trading-day period, 8-12 February 2001, Merck's stock price increased 1.37%. Over the same period, the Market Index return was -1.06%, and the Pharmaceutical Index return was 1.54%. The three-day explained return for Merck's stock according to the regression model is positive 1.37%, which is the change one would

- expect in the price of Merck stock on account of market and sector effects absent any Merck-specific information.
- 89. The residual three-day return for Merck stock was 0.01%. On a residual return basis, Merck stock barely budged over the three day period. This three-day residual return is associated with a *t*-statistic value of virtually zero. The residual return is not statistically significant at the standard 5.0% significance level, or any other reasonable level (p-value equals 0.998).
- 90. As shown in Exhibit-7, Merck's residual return over the three days beginning on February 7th was similarly not significant.
- 91. Nonetheless, Dr. Lehn attributes 94% of Pharmacia's gross stock price decline on 8 February 2001 to the Vioxx news. ¹⁸ However, if the Vioxx news was not measurably beneficial for Merck, following Dr. Lehn's logic it could not have been so material as to be responsible for the large and highly statistically significant decline in the price of Pharmacia stock that occurred on 8 February 2001.

INTRADAY PRICE MOVEMENTS ON 8 FEBRUARY 2001

- 92. Dr. Lehn relies on intraday stock price data to support his argument that the significant decline in the Pharmacia stock price on 8 February 2001 was due to that day's news about Vioxx labeling rather than the corrective disclosures about CLASS.
- 93. According to Dr. Lehn, the Advisory Committee released its decision to recommend that Merck be allowed to amend the Vioxx label at 3:06 p.m. on 8 February 2001. He also contends that a major portion of the full day's decline in the price of Pharmacia stock occurred after 3:00 p.m., and therefore must have been the result of the FDA Advisory Committee's decision pertaining to the Vioxx label.

"Pharmacia's residual return on February 8, 2001 was negative 5.59%, which is statistically significant. The major news about the February 8, 2001 Vioxx hearing was that the FDA Advisory Panel was going to allow Merck to add safety data from its study to the Vioxx label. When this information was released at approximately 3:00 p.m., Pharmacia's stock price declined by approximately \$2.50, or 4.45%."

Lehn Report, paragraph 84.

¹⁸ Lehn Report, paragraph 84.

94. There are numerous flaws in Dr. Lehn's argument that Pharmacia's intraday price changes indicate the Vioxx news was responsible for the large decline that day. In addition to the fact that the Vioxx news did not cause a statistically significant change in the Merck stock price, and that Dr. Lehn did no comparable analysis on Merck's intraday stock prices, Dr. Lehn's analysis of Pharmacia's intraday prices is rife with factual and methodological errors.

Factual Errors in Dr. Lehn's Intraday Analysis

Dr. Lehn Measures the Price Changes Incorrectly

- 95. According to Dr. Lehn, the price decline between 3:06 p.m. and the close of trading on February 8th was \$2.50. I attempted to confirm Dr. Lehn's quantitative conclusion by examining the intraday stock price data obtained from the Trade and Quote ("TAQ") database. According to the TAQ data, the highest price for Pharmacia stock after 3:06 p.m. was \$55.40 per share. Pharmacia's closing stock price was \$53.00 per share, or \$2.40 per share lower than the highest price after 3:00 p.m. (which occurred at 3:10 p.m.). Consequently, Pharmacia's stock price fell at most \$2.40 per share after the time Dr. Lehn contends the Vioxx announcement was made, not the \$2.50 per share he reports.
- 96. The price decline from the precise time when Dr. Lehn contends the announcement was made was even less than \$2.40 per share. The last trade prior to 3:06 p.m. occurred at a price of \$55.02 per share. From this price to the closing price, the decline was \$2.02 per share again, not the \$2.50 per share Dr. Lehn claims. This decline is \$0.48 per share, or 19%, less than the drop that Dr. Lehn attributes to the Vioxx news.

Dr. Lehn Sets the Time of the Vioxx News Incorrectly

97. It appears that Dr. Lehn is mistaken about when the market learned that the Advisory Committee would recommend a Vioxx label change. On page 27 of his report, Dr. Lehn states the information was released at approximately 3:00 p.m. on 8 February 2001. In his Exhibit 11, he times it more precisely at 3:06 p.m.

"The major news about the February 8, 2001 Vioxx hearing was that the FDA Advisory Panel was going to allow Merck to add safety data from its

¹⁹ Closing and opening stock price data obtained from CRSP.

study to the Vioxx label. When this information was released at approximately 3:00 p.m., Pharmacia's stock price declined by approximately \$2.50, or 4.45%." **Lehn Report, paragraph 27.**

"3:06 PM - A federal panel recommended that Merck & Co.'s (MRK) Vioxx add information to its label saying the drug causes fewer ulcers than naproxen."

Lehn Report, Exhibit 11, citing Dow Jones Newswires.

98. While a show of hands recapping the morning's deliberations was taken at approximately 3:00 p.m., the transcript of the Committee's deliberations shows that the meeting's participants had expressed their views about Vioxx labeling earlier in the day.

"[Dr. Lawrence Goldkind, Gastrointestinal Review]: To briefly review the results, these have been shown previously, just formatted differently. Vioxx compared to naproxen, the rate, either per 100 patient years or cumulative rate, did show a risk reduction, 0.46, with a highly statistical significant p value."

"FDA Arthritis Advisory Committee Hearing Transcript; re: NDA 21-042/S007, Vioxx (Rofecoxib, Merck)," dated 8 February 2001, p. 103, prior to the 12:20 p m. lunch break at p. 146.

"[Dr. Goldkind]: In terms of the generalizability of GI safety, as the sponsor has noted, Vioxx did have a substantial decrease in risk for the PUBs and complicated PUBs, as noted here."

Ibid., p. 106, prior to the 12:20 p m. lunch break at p. 146.

"[Dr. Maria Lourdes Villalba, Medical Officer]: My answer would be that we have a label that has a GI warning for non-steroidals and, based on this study, the sponsor is proposing to downgrade that label and move it to the precautions section, and be different from the other NSAIDs, and I think that the fact that we still have reports in postmarketing of these kinds of events supports the fact that we shouldn't be changing well, *I mean modifying the label*, *yes*, but a dramatic change in the label, I think that is not warranted."

Ibid., p. 129, prior to the 12:20 p m. lunch break at p. 146 (emphasis added).

"[Dr. Steven Nissen, Cardiovascular And Renal Drugs Advisory Committee Member]: If I could just amplify on that for a moment, we saw a very strong message about some reduced incidence of GI effects and I happen to share Dr. Wolfe's perspective that these are not trivial events." *Ibid.*, p. 168.

"[Dr. M. Michael Wolfe, Gastrointestinal Drugs Advisory Committee Member]: I am comment only on the GI because that is what I am here for. I am a firm believer in setting forth the hypothesis, designing a study appropriately, checking the results, and if the results match your hypothesis your primary goal has been achieved. I think the data both presented by Merck and by the FDA show that there is, indeed, a decreased risk of GI toxicity associated with the use of this drug. No matter what arguments can be made about, well, was it because of naproxen being the comparator I don't know. The study was designed. It was approved by the FDA. I think we have to go with what the results showed. I think in that regard I have to say that there is decreased risk of GI events. Endoscopically as well as outcomes show a parallel decrease in the rate of GI complications."

Ibid., pp. 185-186.**

"[Dr. James H. Williams, Jr., Advisory Committee Member]: I agree with Dr. Wolfe that I think they have met the burden of proof. Now, I don't think a single comparison is generalizable to all NSAIDs but I think they do have to change the label to say that in the one study that was done it was shown to make a difference.

Ibid., p. 186.

"[Dr. Steven Nissen:] Well, I am just a poor cardiologist so I don't have a lot of sophistication about the GI tract, but it seems to me that we can't make this like it is in the Olympics. When you pole vault, you know, you go over a height and then somebody comes around and says, 'well, okay, you made that height; we're going to put another bar up for you to go over.' I mean, it seems to me the sponsor here did a very large, probably pretty expensive study, with the advice and consent of the FDA. They created this template. They made those goals very clear from the very beginning. They achieved not a marginal amount of statistical significance on the GI side but an unequivocal statistical significance. So, the statement that rofecoxib is safer, from the gastrointestinal point of view, with respect to the endpoints that were used over naproxen is a fact, in my view, and not a marginal one, and I think that should be reflected in the product literature."

Ibid., p. 188 (emphasis added).

"[Dr. David Wofsy, Consultant and Expert Arthritis Advisory Committee Consultant]: I have been convinced by this morning's data that, at least with respect to some of the other non-steroidals on that continuum, they have less GI toxicity." *Ibid.*, p. 190.

"[Dr. Ileana Pina, Cardiovascular And Renal Drugs Advisory Committee Member]: I agree that the sponsor has proven what they meant to prove in a restricted population of rheumatoid arthritis patients who had no aspirin."

Ibid., p. 192.

"[Dr. Byron Cryer, Guest Expert]: But I actually also fall in agreement with my colleague here, Dr. Wolfe, and that is that with respect to these labeling considerations what drives the label is a process, a process that you define ahead of time, and there are rules that are inherent in that process that drives the label."

Ibid., pp. 197-198.

"[Dr. Steven Nissen:] I would change the label." *Ibid.*, p. 199.

"[Wendy McBrair, Consumer Representative]: I think the label should reflect exactly what we know and what we learned from the study that was done." *Ibid.*

"[Dr. James H. Williams]: I will give Dr. Wofsy's yes." *Ibid.*, p. 202.

99. At approximately 3 o'clock there was a show of hands recapping the morning's deliberations, but the meeting participants had already expressed their opinions earlier.

"[Dr. E. Nigel Harris, Acting Chairperson]: What I am going to do is just to carry that message that, in fact, one does have to weigh the benefits of one organ system compared to sort of the overall risk benefit, whatever. I will actually ask for a vote with respect to whether or not we actually should advise that there might be some way of framing that benefit in one system and the issue of overall benefit. Do I get a sense from the committee that we agree that there should be some mention made of that? Let me have a show of hands, yes or no.

[Show of hands]

Is there any disagreement?

[No show of hands]

Any abstentions?

[No show of hands]

So, that was unanimous. There are two general questions that have been posed, and I want to read the first of them yes, Dr. DeLap?" *Ibid.*, pp. 213-214.

100. That the Committee members had already expressed their opinions on the matter prior to the show of hands was noted explicitly by Dr. Harris.

"[Dr. Harris]: What I am going to ask now is whether or not in your opinion as I am going around the room, you believe the warning label should be changed with respect to GI toxicity. Keep your remarks brief, please, because I think *most of you have had an opportunity to make a statement*."

"FDA Arthritis Advisory Committee Hearing Transcript; re: NDA 21-042/S007, Vioxx (Rofecoxib, Merck)," dated 8 February 2001, p. 197.

101. That the market learned of the Committee's intentions hours prior to the time Dr. Lehn claims the Vioxx news arrived is evident in an *Associated Press* wire, made available on *Bloomberg*, which was time stamped 12:51 p.m. (eastern time).

"The arthritis drug Vioxx appears to cause fewer ulcers than the older painkiller naproxen and its label should say so, the government's scientific advisers decided Thursday in a boon for maker Merck & Co. But the panel didn't have all good news for Merck: Vioxx should retain its strong warning that it can cause ulcers just like some other older, cheaper painkillers – and doctors and patients should be warned that it might carry a heart risk, too."

"Scientists Advise on New Drug Vioxx," Associated Press Wire, 8 February 2001, 12:51:32 (17:51 GMT).

Price Response Following the Associated Press Wire

102. As shown in Exhibit-8, the announcement at 12:51 p.m. was followed immediately by an *increase* in the price of Pharmacia stock, not a decrease. The first trade prior to 12:51:32 p.m. was at a price of \$55.49 per share. Between that time and 1:09:18 p.m. the price of Pharmacia stock rose \$0.56 per share to \$56.05 per share. The immediate price response following the *Bloomberg* article about the Advisory Committee's decision was therefore a rise in price of more than 1%, not a decline as Dr. Lehn contends.

103. To be consistent with his prior opinion that information is assimilated in five to ten minutes, this price movement would indicate to Dr. Lehn that the Vioxx news reported by *Bloomberg* caused the Pharmacia stock price to rise and therefore could not be responsible for the day's decline.

Pharmacia Stock Had Declined Prior to the Vioxx Announcement

- 104. Dr. Lehn also neglects to analyze movements that occurred in the price of Pharmacia stock prior to 3:00 p.m., and thus fails to observe that Pharmacia stock declined from the closing price of \$56.13 per share on 7 February 2001 to \$54.30 per share by 10:40 a.m. on 8 February 2001, indisputably before the Vioxx announcement on 8 February. From the prior day's close to this mid-morning point, the price declined \$1.83 per share, or 3.3%, which amounted to 58.5% of the total decline for the day.
- 105. If Dr. Lehn had controlled for the chemical and agricultural business by factoring out the value of New Monsanto, as I did when I derived the Pharmacia Pharmaceuticals Stock Prices, he would have observed an even steeper price decline occurring prior to the Vioxx announcement. The opening Pharmacia Pharmaceuticals Stock Price that day was \$50.48 per share. This represents a 0.6% decline from the previous day's closing price of \$50.78. Between the opening of trading and 10:40 a.m., the Pharmacia Pharmaceuticals Stock Price continued to decline, reaching a low of \$48.87, or a 3.8% decline from the previous day's close. A 3.8% decline represents approximately 60% of the total decline experienced that day.
- 106. Dr. Lehn fails to consider the stock price slide in morning trading on February 8th, which appears to be a continuation of the previous day's reaction to the corrective disclosure.

Methodological Errors in Dr. Lehn's Intraday Analysis

Dr. Lehn Neglects to Control for Market and Peer Effects, Or for the Value of New Monsanto

107. Dr. Lehn's purported intraday stock price analysis suffers from his lack of control for market and peer group effects. In his discussion of event study analysis in general, Dr. Lehn rightfully acknowledged that it is necessary to control for market and peer group effects. "To perform event study analyses in this matter, I examined the relation between Pharmacia's stock returns and the stock returns of general market indices and Pharmacia's industry peers." Lehn Report, paragraph 44.

"In this case, I used the NYSE Index ("NYSE index") and a Competitor Index of peer firms to control for movements in the market and peer company indexes during the control period." *Ibid.*, paragraph 45.

- 108. While he accepts that controlling for market and peer effects is a necessary and important step, in his intraday analysis Dr. Lehn makes no effort to control for these factors. Nor does Dr. Lehn control for information affecting Pharmacia's chemical and agricultural business, by factoring out the value of New Monsanto as I did, or in any manner whatsoever.
- 109. Consequently, Dr. Lehn cannot rule out that the Pharmacia stock price movements he observes after the Vioxx announcement may have been caused by price movements in the overall stock market or peer group, or information relating to New Monsanto. Similarly, Dr. Lehn did not examine Pharmacia's residual returns prior to the Vioxx announcement. Consequently, Dr. Lehn did not do the requisite analysis to attribute the intraday price movements on 8 February 2001 to any one particular factor as opposed to another.

Dr. Lehn Ignores the Noise and Errors in Intraday Price Data

110. The academic literature addresses numerous unique problems and challenges associated with intraday data. Dr. Lehn, however, ignores these. For example, as the observational frequency of pricing data increases from daily to intraday, the ratio of noise-to-information in computed returns generally increases.

"Raw returns measurement

The presence of noise in the price data and the fact that stocks trade at discrete time intervals means that returns are measured with error and are frequently unobservable. This affects both how returns are calculated and how to deal with nontrading intervals. Although these issues also exist at the daily level, they are more important at the intraday level.

Logarithmic vs. proportional returns

There are two standard methods for calculating returns: the proportional return ($[(P_t+D_t)/P_{t-1}]-1$) and logarithmic return ($ln[(P_t+D_t)/P_{t-1}]$), where P and D are the price and dividends, respectively.

When proportional returns are calculated, any noise present in observed prices will cause the measured security returns to be biased upward. At the intraday level, two systematic sources of noise can be identified: the bid/ask spread and price discreteness (see Dravid 1988). Blume and Stambaugh (1983) find that when daily returns are calculated, the magnitude of the bias for low-priced stocks (averaging ~ \$5) is 0.051 percent, which is approximately one-third of the average daily return of 0.141 percent. The effect of the bias caused by the bid/ask spread and price discreteness on higher-priced stocks at the daily level is negligible. For shorter time periods, however, the effect of this bias will become greater, even for relatively high-priced stocks if the magnitude of the 'true' return decreases. Therefore, at the intraday level, it seems appropriate to be concerned with this issue. In this paper, log returns are used because they eliminate the bias in returns induced by the bid/ask spread and price discreteness (see Mucklow 1991)."

"Market Microstructure: Effects on Intraday Event Studies," by Belinda Mucklow, *Contemporary Accounting Research*, Spring 1994, p. 357 (internal citations omitted, emphasis in original).

111. The statistical problems arising from noise in intraday data are well documented and discussed widely in the literature.

"Unfortunately, unlike those low frequency time series that are homogeneously spaced, tick-by-tick transactions of different assets usually occur randomly and asynchronously; in addition, with high frequency data comes market microstructure noise."

"High-Frequency Covariance Estimates With Noisy and Asynchronous Financial Data," by Yacine Aït-Sahalia, et al., Journal of the American Statistical Association, December 2010, p. 1504.

112. Not only did Dr. Lehn ignore these problems described in the literature, but he used proportional returns rather than logarithmic returns, which as noted by Mucklow [1994], exacerbates the problem.

Dr. Lehn Ignores the Special Statistical Testing that Intraday Price Analysis Requires

113. The statistical properties of intraday returns are known to differ from those of daily returns, in ways that require specialized statistical testing.

"Little is known about the distribution of intraday stock returns, especially the distribution of returns conditional on some event like a new equity issue announcement. Thus, it is appropriate to test the robustness of the parametric results discussed above with nonparametric tests. The bootstrap, developed by Efron (1982) and others, is one of several resampling plans that can be applied in situations where standard parametric techniques for statistical inference are inappropriate."

"Announcement Effects of New Equity Issues and The Use of Intraday Price Data," by Michael J. Barclay and Robert H. Litzenberger, *Journal of Financial Economics*, 1988, p. 79.

114. Not only did Dr. Lehn not conduct the specialized testing required when working with intraday data according to Barclay and Litzenberger [1988] (e.g. bootstrapping or non-parametric tests), he did no formal statistical testing at all. For these reasons as well, Dr. Lehn cannot conclude that the intraday price movements on 8 February 2001 were caused by any one particular factor as opposed to another.

<u>Dr. Lehn Fails to Consider Pharmacia Stock's Intraday Price Movement On 7 February</u> 2001

- 115. If Dr. Lehn believes that the best way to determine a stock's reaction to specific news is to informally analyze intraday trading data, which I disagree with, it follows logically that in order to determine what news Pharmacia's stock price reacted to on 7 February 2001 he should have examined Pharmacia stock's intraday price data on that day as well.
- 116. To test Dr. Lehn's incorrect conclusion that Pharmacia's large stock price decline on 7 February 2001 was caused by the FDA Advisory Committee's announcement, which "entered the public press at 2:25 p.m.," I examined the intraday trading data of the Pharmacia Pharmaceuticals Stock Price in the same manner Dr. Lehn attempted to analyze the February 8th intraday data. As shown in Exhibit-9, and detailed below, the majority of the Pharmacia Pharmaceuticals Stock Price decline occurred hours before the FDA Advisory Committee's announcement.
- 117. On 7 February 2001, the Pharmacia Pharmaceutical Stock Price declined 3.15%, or \$1.62 per share. That day, the opening Pharmacia Pharmaceuticals Stock Price was \$51.09 per

²⁰ Lehn Report, paragraph 76.

- share, representing a decline of \$1.32 per share from the previous day's closing price of \$52.41 per share.
- 118. By 10:25 a.m. (four hours prior to 2:25 p.m. when according to Dr. Lehn the FDA Advisory Committee decision was released to the public) the Pharmacia Pharmaceuticals Stock Price was \$50.90 per share, or \$1.51 per share lower than the previous day's closing price. The \$1.51 decline in the Pharmacia Pharmaceuticals Stock Price represents 92.9% of the observed stock price decline on 7 February 2001.
- 119. While the Pharmacia Pharmaceuticals Stock Price is the more appropriate variable to analyze for assessing the impact of news related to Celebrex, for comparison purposes and because Dr. Lehn focused on the Pharmacia stock price without removing the value of New Monsanto, I also analyzed the intraday trading data for Pharmacia stock. On 7 February 2001, Pharmacia's stock price declined \$1.52 per share, or 2.7%. By 10:25 a.m. the Pharmacia stock price declined \$1.50 per share (or 2.6%) from the previous day's closing price. This early decline represents 98.7% of the total decline in the Pharmacia stock price that occurred that day. It is particularly noteworthy that from 2:30 p.m. (the first five minutes after the 2:25 p.m. announcement) to the close of trading, Pharmacia's stock price *increased* from \$55.75 per share to \$56.13 per share, a rise of \$0.38 per share.
- 120. The intraday data clearly show that the declines in Pharmacia Pharmaceuticals and Pharmacia occurred prior to the Advisory Committee's 2:25 p.m. decision regarding Celebrex.
- 121. If one were to accept Dr. Lehn's analysis of intraday data as reliable, which I do not, then it would follow that the intraday data from February 7th contradicts Dr. Lehn's conclusion about what caused the price drop that day. Dr. Lehn would have to conclude that the Advisory Committee's decision did not cause the day's price decline.
- 122. While Dr. Lehn embraces intraday price analysis for his purpose of arguing that the February 8th price declines were caused by Merck news, he fails to apply that same analysis to February 7th, when such analysis would contradict his conclusions.
- 123. Nonetheless, for the methodological reasons stated above, the manner in which Dr. Lehn analyzes intraday return data is unreliable. The flaws in Dr. Lehn's analysis as well as the facts of this case support event study analysis with a three-day window as the appropriate analytic methodology.

THE SCIENTIFIC BASES DR. LEHN OVERLOOKED

- 124. Dr. Lehn states that he observes no scientific basis indicating that the alleged misrepresentations and omissions about CLASS inflated Pharmacia's stock price. As shown in this report, numerous scientific bases are present, but overlooked or ignored by Dr. Lehn.
- 125. Dr. Lehn fails to observe the statistical significance of the Pharmacia stock price decline that occurred on 7 February 2001 due to numerous flaws in his analysis. His event study fails to appropriately control for the effects of Pharmacia's chemical and agricultural business on the Company's stock price. His choice of peer companies is neither comprehensive nor consistent with the peers identified by the Company. Dr. Lehn inappropriately dismisses the large residual stock price decline on 7 February 2001 that even his flawed test detects. Consequently, he overlooks the inescapable conclusion that the Pharmacia stock price decline on 7 February 2001 was caused by information concerning CLASS.
- 126. Dr. Lehn fails to associate the statistically significant declines on February 7th, February 8th, and cumulatively from February 6th through the 8th to the corrective disclosures due to his improperly short event window.
- 127. Dr. Lehn's conclusion that the statistically significant decline in Pharmacia stock on 8

 February 2001 was caused by Vioxx news is at odds with his own logic and analysis. Due to the fact that the Vioxx news was not measurably beneficial for Merck, it could not have been so material as to be responsible for the large and highly statistically significant decline in the price of Pharmacia stock that occurred on 8 February 2001.
- 128. Not only does Dr. Lehn's analysis of intraday stock price data have numerous fatal factual and methodological errors, which render his conclusions unreliable, but Dr. Lehn's failure to examine the intraday stock price data on 7 February 2001 renders his analysis incomplete. Applying the same analysis to February 7th that he applied to February 8th, leads to findings incompatible with his loss causation conclusions.

- 129. Dr. Lehn fails to consider how the Company's briefing document that was posted on or about 6 February 2001 confounded the corrective disclosure, slowing the market's revaluation of Pharmacia stock.
- 130. Dr. Lehn's depiction of the Advisory Committee's actions on 7 February 2001 as being an unforeseen and unrelated event is not supported by the facts of the case.
- 131. Dr. Lehn's flawed analysis presents no basis to alter my conclusion that the alleged misrepresentations and omissions caused the price of Pharmacia stock to be artificially inflated over the course of the Class Period, and caused investor losses when ultimately corrected.

CRITIQUE OF THE FIORINO REPORT

- 132. Dr. Fiorino contends that the allegedly undisclosed CLASS results were "not material," that Pharmacia's stock was not "falsely elevated" during the Class Period, and that the release of the entire CLASS results did not "cause a decline" in Pharmacia's stock price.²¹
- 133. However, Dr. Fiorino supports none of his conclusions with generally accepted scientific analysis. Rather, his conclusions are essentially conjecture. Moreover, his opinions are internally inconsistent and run contrary to established empirical facts.

Dr. Fiorino Draws Loss Causation Conclusions, But Runs No Event Study

134. Dr. Fiorino opines that the CLASS disclosures "did not result in a meaningful change in Pharmacia's stock price."

"[T]he disclosure of the allegedly withheld results from CLASS did not cause a decline in Pharmacia's stock price." Fiorino Report, p. 6.

"The disclosure and complete dissemination of the allegedly previously undisclosed results of CLASS study on February 6, 2001 in the FDA Arthritis Advisory Committee briefing documents (what should have been, in the Plaintiffs' construction, the end of the 'alleged scheme'), did not change analysts' forecasts for future Celebrex sales or Pharmacia's

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²¹ Fiorino Report, p. 6.

future earnings, did not alter the prescription trends for Celebrex, and did not result in a meaningful change in Pharmacia's stock price." *Ibid.*

"Moreover, the disclosure of those results was not associated with a decline in Pharmacia's stock price on February 6 and did not cause or contribute to the Pharmacia stock price decline on February 7, 2001; rather, the Advisory Committee vote was the cause of the February 7 stock price decline." *Ibid.*, p. 32.

"Specifically, Pharmacia's stock price declined on February 7 because the FDA Arthritis Advisory Committee vote against a Celebrex label change, and Pharmacia's stock price declined on February 8 because the same Committee voted in favor of a label change for Vioxx, Celebrex's competitor." *Ibid.*, pp. 27-28.

135. While he draws conclusions about what did and did not cause the Pharmacia stock price to decline, Dr. Fiorino ran no event study – the analysis generally accepted to be the appropriate methodological tool for determining whether or not specific information caused a stock price movement.

136. Authoritative articles in the finance literature are clear that event study analysis is the proper tool for the job. For example:

"Economists are frequently asked to measure the effects of an economic event on the value of firms. On the surface this seems like a difficult task, but a measure can be constructed easily using an event study. Using financial market data, an event study measures the impact of a specific event on the value of a firm."

"Event Studies in Economics and Finance," by A. Craig MacKinlay, *Journal of Economic Literature*, March 1997, p. 13.

137. Event studies are also generally accepted as the appropriate tool in forensic settings to answer questions of causation and materiality.

"The most important reason to consider the use of an event study is that it is likely to provide a highly objective methodology for calculating the magnitude of damages and the materiality of the event that may have caused the damages."

"Materiality and Magnitude: Event Studies in the Courtroom," by David Tabak and Frederick Dunbar, in *Litigation Services Handbook*, 3rd Edition, John Wiley & Sons, New York, 2001.

138. Dr. Fiorino acknowledges that the event study methodology is the generally accepted methodology for assessing causation and materiality, and that his approach is different.

"I understand that the typical method used for assessing materiality in securities litigation is the 'event study.' Whereas an event study attempts to assess materiality quantitatively by analyzing stock price movements in response to disclosures that are alleged to be misleading or corrective, my approach analyzes the contemporaneous views of sell-side analysts in response to the disclosures that are alleged to be misleading or corrective." **Fiorino Report, p. 10.**

Dr. Fiorino's Assumptions About Stock Return Significance Are Incorrect

139. Despite having run no event study to properly analyze the empirical movements of the Pharmacia stock price, Dr. Fiorino draws conclusions about the empirical movements of the Pharmacia stock price.

"Furthermore, this finding of immateriality is supported by the lack of change in Pharmacia's stock price as a result of the disclosure of the allegedly previously undisclosed CLASS results." **Fiorino Report, p. 18.**

"Consistent with this finding that the allegedly previously undisclosed CLASS results were immaterial, the dissemination of these results had no impact on Pharmacia's stock price (Figure 5). As reflected in Figure 5, Pharmacia stock closed just \$0.63 lower on February 6, 2001 than the prior day's close." *Ibid.*, p. 24.

Ibid., p. 24.

"In conclusion, I find that the results of the CLASS study undisclosed by the Defendants in April 2000 cannot be viewed as material (and consequently the cause of a falsely elevated stock price) because the full and widespread disclosure of those results on February 6, 2001 did not result in changes to Pharmacia forward EPS estimates, Celebrex sales forecasts or the Celebrex prescription growth trend, *nor was there a decline in Pharmacia's stock price*." *Ibid.*, p. 26 (emphasis added).

"Moreover, the disclosure of those results was not associated with a decline in Pharmacia's stock price on February 6 and did not cause or contribute to the Pharmacia stock price decline on February 7, 2001 ..." *Ibid.*, p. 32.

"I noted earlier that there was no change in the stock price on February 6; on February 7, with the FDA Arthritis Advisory Committee voting against a Celebrex label change, Pharmacia's stock declined by 2.6%. In contrast, after the Advisory Committee voted in favor of a Vioxx label change on February 8, Pharmacia's stock ended the day down 5.6%."

Ibid., p. 33.

140. Because Dr. Fiorino fails to conduct the proper event study analysis, he draws incorrect conclusions about the magnitudes of Pharmacia residual returns and the factors that caused them. He contends that the February 6th disclosure caused no price movement, but he fails to consider the price change over the next two days as investors and analysts (including himself at the time²²) processed the newly disclosed information. He fails to control for the market effect, peer group effect, and the effect of information on the value of the New Monsanto business (which he admits was important²³). He fails to consider that the Pharmacia Pharmaceutical Stock Price fell a statistically significant 4.17%, 6.91%, and 11.81% on February 7th, February 8th, and over the three day window 6-8 February 2001, respectively.

Dr. Fiorino Contradicts His Own Argument About What Moves Stock Prices

141. Dr. Fiorino argues that the CLASS disclosures were not material and could not have caused the Pharmacia stock price decline because he contends analysts' forecasts of sales and earnings did not change after the disclosure.

²² "FDA Review of Celebrex More Negative Than Expected – Panel Could Be Controversial," by Carl Seiden, Roopesh Patel, Tony Fiorino, and Gloria Tsuen, JP Morgan, analysts report, 7 February 2001, JPMC 001610 - 13. ²³ Fiorino Report, p. 9.

"Therefore, if the Plaintiffs' allegation regarding the materiality of the allegedly initially undisclosed CLASS results is correct, then upon learning of these results, analysts would have viewed the prospects for Celebrex as materially worse and would have lowered their Celebrex sales forecasts and reduced their Pharmacia EPS estimates. Furthermore, were these results material, their dissemination to physicians would have resulted in a change in Celebrex prescription trends. Yet as discussed below, there were no such changes. Therefore, I conclude that the results of the CLASS study undisclosed in April 2000 and subsequently disclosed in February 2001 cannot be considered material."

Fiorino Report, pp. 17-18.

"The lack of adjustment in Celebrex sales forecasts and Pharmacia EPS estimates means that analysts did not find the allegedly previously undisclosed results to be material with regard to their expectations for Celebrex." *Ibid.*, p. 19.

- 142. The earnings forecasts Dr. Fiorino presents compare forecasts before February 6th with forecasts made up to 12 February 2001.²⁴ Dr. Fiorino does not give the dates of the sales forecasts he presents in his Table 1, however my review of the analysts' sales forecasts indicates that the "after" forecasts may be as late as May 2001. Consequently, analyst forecasts remained steady past February 8th and not just past February 6th as Dr. Fiorino suggests.
- 143. Surprisingly, while Dr. Fiorino argues that the steady forecasts rule out the information disclosed on February 6th as having been material and causative of a Pharmacia stock price decline, he concludes that the Advisory Committee's announcement on February 8th pertaining to Vioxx, despite it too having no apparent impact on analysts' reported sales and earnings forecasts, was material and responsible for a decline in the Pharmacia stock price.

"In contrast to the previous day's results, at approximately 3:00 p.m. on February 8, 2001, the same advisory committee voted to recommend incorporation of new safety data from Merck's VIGOR trial into the Vioxx label. A change for Vioxx but no change for Celebrex would put Celebrex at a competitive disadvantage, and this risk – which was completely unrelated to the allegedly initially undisclosed CLASS results

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²⁴ *Ibid.*, p. 18.

that had been disclosed in the Advisory Committee briefing documents on February 6 – caused a decline in Pharmacia's stock price." **Fiorino Report, pp. 32-33.**

"Specifically, Pharmacia's stock price declined on February 7 because the FDA Arthritis Advisory Committee vote against a Celebrex label change, and Pharmacia's stock price declined on February 8 because the same Committee voted in favor of a label change for Vioxx, Celebrex's competitor." *Ibid.*, pp. 27-28.

144. Dr. Fiorino's arguments are inconsistent and internally contradictory. If he believes that the Vioxx decision, though it caused no change in analysts' earnings and sales forecasts, caused the Pharmacia stock price decline, then certainly he cannot argue that the CLASS disclosures were immaterial and caused no price decline on account of the same steady forecasts.

<u>Dr. Fiorino's Attribution of the Pharmacia Stock Price Decline to the Vioxx Announcement is Unsupported, Inconsistent, and Incorrect</u>

- 145. Dr. Fiorino's contention that the Vioxx announcement on February 8th caused the decline in Pharmacia's stock price is not only unsupported, but runs contrary to his own opinion about what indicates materiality.
- 146. As noted, Dr. Fiorino argues that to be material, information must impact analysts' sales and earnings forecasts. But, as Dr. Fiorino states on page 19 of his report, the Vioxx announcement did not change the Merck sales and earnings forecast of a "highly respected buy-side pharmaceuticals analyst."

"In an internal note dated February 9, 2001, Norm Fidel, the highly respected buy-side pharmaceuticals analyst at Alliance, provides evidence of an identical process from one major institutional investor that managed portfolios for the Plaintiffs, noting the panel outcomes and writing '[t]here are *no changes to sales estimate [sic]*, *earnings estimates or ratings* of the three companies' (referring to Pharmacia, Pfizer and *Merck*)." Fiorino Report, p. 19, footnote 20 (emphasis added).

147. Moreover, Dr. Fiorino neglects to consider that the Vioxx announcement caused no significant movement in the Merck stock price, which according to Dr. Lehn, renders the news immaterial.

Dr. Fiorino Disregards the Academic Literature on Reputation Effects

148. Dr. Fiorino's premise that in order for a disclosure to be material it must change analysts' forecasts of sales and earnings is inaccurate and contradicted by abundant academic research. Published research has demonstrated that the impact of a corrective disclosure on management's reputation can have a significant negative effect on a company's stock price. For example:

"Risk/uncertainty likely increases and future prospects may well decrease when management integrity and competence are called into question."

. . .

This may be due to an increase in the discount rate because fraud creates uncertainty about the reliability and credibility of management representations, which increases the perceived information asymmetry between management and stockholders."

"Determinants of Market Reactions to Restatement Announcements," by Zoe-Vonna Palmrose, et al., Journal of Accounting and Economics, 2004, p. 63.

"Our results show that reputation helps discipline financial misrepresentations – indeed, the evidence indicates that market-imposed reputation losses are of *primary* importance. One way to illustrate the importance of the reputation loss is to consider the average impact on a firm that inflates its market value by \$1 through deceptive financial reporting practices. When the deception is uncovered, the point estimates from Panel A of Table 9 indicate that the firm loses this dollar, plus an additional \$3.08 in expected legal penalties and lost reputation. (Since the readjustment effect equals 24.53% of the total dollar loss, a \$1.00 readjustment implies a total dollar loss of \$4.08 (= \$1.00/0.2453).) Of the additional loss, only \$0.36 represents the expectation of legal penalties. The remaining \$2.71 is the present value of the expected higher financing and contracting costs or reduced cash flows that result from the firm's misconduct. This is an empirical estimate of one portion of Jensen's (2005) agency cost of overvalued equity, namely, the reputational cost of cooking the books (and being apprehended).

Prior research indicates that reputation losses are important for some other types of corporate misconduct, including false advertising (Peltzman (1981)), product recalls (Jarrell and Peltzman (1985)), air safety disasters

(Mitchell and Maloney (1989)), frauds of private parties (Karpoff and Lott (1993), Alexander (1999), and Murphy, Shrieves, and Tibbs (2009)), investigations of IPO underwriters (Beatty, Bunsis, and Hand (1998)), and defense procurement fraud (Karpoff, Lee, and Vendrzyk (1999))."
"The Cost to Firms of Cooking the Books," by Jonathan M. Karpoff, et al., Journal of Financial and Quantitative Analysis, 2008, p. 601.

- 149. As the quotes above explain, the negative reputational effects of corporate misdeeds can reduce a company's valuation by increasing risk and uncertainty, and raising financing costs. These factors are not necessarily reflected in analysts' sales and earnings forecasts, contrary to Dr. Fiorino's premise that only sales and earnings matter.
- 150. Additionally, Pharmacia considered reputation effects to be important. During a Pharmacia Board of Directors meeting, held on or about 25 September 2001, the Board discussed CLASS and the issue surrounding the 6-month versus 12-month data. This issue, according to Pharmacia's CEO, Fred Hassan, was important enough to discuss with the Board of Directors because it "brought the integrity of the Company into question."
 - "Q. And then the next bullet point says, 'CLASS'. That's referring to the CLASS trial that we've been discussing today?
 - A. Yes.
 - Q. And then next to that it says 6-month versus 12-month reporting?
 - A. Yes.
 - Q. And then under that it says 'Integrity of company'?
 - A. Yes.
 - Q. And is it fair to say that you thought this was important enough to discuss with the board the 6-month versus 12-month issue in the middle 2001?
 - A. Yes.
 - Q. And you thought it was important because it brought the integrity of the company into question?
 - A. Yes."

Deposition Transcript of Fred Hassan, dated 22 February 2011, p. 217.

151. Dr. Fiorino either ignores or is unaware of the vast academic literature on reputation effects.²⁵ He also ignores that Defendants concurred about the value of the Company's perceived integrity. Dr. Fiorino is wrong to contend that for purposes of valuing a company, only revenue and earnings matter.

Dr. Fiorino's Opinions About Analyst Coverage and the Materiality of the CLASS Disclosure Are Belied by the Analyst Report He Coauthored

152. Dr. Fiorino asserts that analysts generally only write reports about material news. He also contends that the CLASS disclosure on February 6th was immaterial.

"First, analysts infrequently publish reports or change estimates based on immaterial news"

Fiorino Report, p. 11.

"In conclusion, I find that the results of the CLASS study undisclosed by the Defendants in April 2000 cannot be viewed as material (and consequently the cause of a falsely elevated stock price)" *Ibid.*, p. 26.

153. However, as a member of JPMorgan's analyst team covering Pharmacia, on 7 February 2001, Dr. Fiorino coauthored a report titled, "FDA Review of Celebrex More Negative Than Expected – Panel Could Be Controversial." In this analyst report, Dr. Fiorino and his team analyzed and disseminated the corrective information posted on the FDA website. As

²⁵ In Corporate Finance: Creating Value While Doing Right, 2005, authors Jonathan M. Karpoff, Timothy J. Gallager, and Joseph D. Andrew review this literature and cite to the following articles which analyze and quantify the valuation effects of management reputation: Cindy R. Alexander, "On the Nature of the Reputational Penalty for Corporate Crime: Evidence," Journal of Law and Economics 42, 1999, p. 489 (for frauds of related parties) (see also Alan K. Reichert, Michael Lockett, and Ramesh P. Rao, "The Impact of Illegal Business Practice on Shareholder Returns, The Financial Review, 1996, pp. 67-85; and J.L. Strachan, D.B. Smith, and W.L. Beedles, "The Price Reaction to (Alleged) Corporate Crime," The Financial Review 18, 1983, pp. 121-132); Sam Peltzman, "The Effects of FTC Advertising Regulation," Journal of Law and Economics 24, 1981, p. 403 (for product recalls); Jonathan M. Karpoff, D. Scott Lee, and Valaria Vendrzyk, "Defense Procurement Fraud, Penalties, and Contractor Influence," Journal of Political Economy 107, 1999, p. 809 (for defense procurement frauds); Terrance R. Skantz, Dale O. Cloninger, and Thomas H. Strickland, "Price-Fixing and Shareholder Returns," The Financial Review 1, 1990, p. 153 (for price fixing); Deborah L. Murphy, Ronald E. Shrieves, and Samuel L. Tibbs, "Determinants of the Stock Price Reaction to Allegations of Corporate Misconduct: Earnings, Risk, and Firm Size Effects," University of Tennessee working paper (for bribery); Jonathan M. Karpoff and John R. Lott, Jr., "On the Determinants and Importance of Punitive Damages Awards," Journal of Law and Economics 62, 1999, p. 527 (for punitive damage lawsuits); Jonathan M. Karpoff, John R. Lott, Jr., and Eric Wehrly, "The Reputational Penalties for Environmental Violations: Empirical Evidence," Journal of Law and Economics, 2005; and Kari Jones and Paul H. Rubin, "Effects of Harmful Environmental Events on Reputations of Firms," Advances in Financial Economics, Volume VI, ed. by

Mark Hirschey, Kose John, and Anil Makhija, 2001, pp. 161-182 (for environmental violations).

- the report title indicates, Dr. Fiorino and his team viewed the posted reports and CLASS data to be unexpected, contrary to prior information, and negative. Clearly then, Dr. Fiorino believed the news to be material.
- 154. To be consistent with his current opinion about what news analysts cover, Dr. Fiorino should still conclude the February 6th corrective disclosure was material.

<u>Dr. Fiorino and His Team Did Not Issue Another Analyst Report Covering the Subsequent FDA</u> Committee Announcements

155. Not only does Dr. Fiorino assert that analysts rarely publish about immaterial events, but he also states that they do publish when new material information emerges.

"First, analysts infrequently publish reports or change estimates based on immaterial news, but *almost always publish reports or notes on events they deem relevant or material to investors*"

Fiorino Report, p. 11 (emphasis added).

156. In the report he submitted for this case, Dr. Fiorino contends that the FDA Advisory Committee decisions about Celebrex and Vioxx, on February 7th and 8th respectively, were intervening events and responsible for Pharmacia stock price declines. However, Dr. Fiorino's JPMorgan report published on February 7th (which covered the posting of the reviewer reports containing the negative CLASS data) was issued prior to the FDA Advisory Committee meeting that day. His team did not issue another report covering the February 7th Advisory Committee meeting or the February 8th Vioxx announcement. Apparently, at the time, Dr. Fiorino did not assess these follow-on events to be material.

<u>Dr. Fiorino's Opinion About the Speed of Price Adjustment is Belied by His Own Analyst</u> <u>Report</u>

157. Dr. Fiorino argues that the February 7th stock price decline was not caused by the disclosure that began on February 6th, because it is his opinion that stock price reactions are always fully completed within a few hours of an announcement. He bases his opinion not on published research or rigorous analysis, but rather on his unverifiable and unreplicable personal experiences.

"Based on my experience as a sell-side analyst and as an investor in pharmaceutical and biotechnology stocks, any contention by Plaintiffs that the stock price decline on February 7, 2001 can be associated with the disclosure of the full CLASS data because the market did not fully appreciate or incorporate the data disclosed on February 6 until sometime during the trading day on February 7, must be rejected out-of-hand. Contrary to such a contention, it takes minutes, at most a few hours, for data from Advisory Committee briefing documents to be incorporated into stock prices."

Fiorino Report, pp. 30-31.

158. This opinion too is contradicted by Dr. Fiorino's analyst report publication record. While Dr. Fiorino contends the FDA reviewer reports were posted on 6 February 2001, he and his team did not publish their report covering this event until the next day. If analysts play any useful role in analyzing and disseminating information (another opinion held by Dr. Fiorino²⁶), then the timing of his own report covering the February 6th corrective disclosure indicates that the process takes longer than a few hours.

<u>Dr. Fiorino's Analyst Report Illustrates That the February 6th Disclosure Was Complex and Confounded</u>

159. Dr. Fiorino argues, without any rigorous analysis or citation to authoritative literature, that the Pharmacia stock price decline over the three days, 6-8 February 2001, was not caused by the corrective disclosure that began on 6 February 2001.

"As discussed in greater detail below, there is absolutely no basis to claim that a stock price decline after February 6, 2001 had any causal relation to the disclosure of the full CLASS data." Fiorino Report, p. 27.

- 160. Dr. Fiorino arrives at this incorrect conclusion because he disregards that the information disclosed on February 6th was complex and confounded by the Company's briefing document.
- 161. As noted in my original report, the academic literature explains that price reactions to complex and unexpected announcements may be protracted.

²⁶ "Second, sell-side pharmaceutical analysts are highly focused on the industry and are relied upon by their clients, investors of varying capacities, to apply their industry knowledge and expertise in quickly addressing the financial implications of new developments regarding important drugs for the companies developing or marketing those drugs." Fiorino Report, p. 11.

- 162. That the CLASS disclosures fit this description is undeniable, and evident even in the analyst report Dr. Fiorino and his team published on February 7th. That report described the new information as being contrary to prior expectations, and described the statistical analysis of the CLASS data to be "thornier than we initially thought."
- 163. Also, the report reflected Defendants' countervailing obfuscation, as the report related Defendants' "informed censoring" argument and presented the issue as an unsettled debate.

"Often the FDA review of data is gloomier than the Advisory Committee dialogue (to occur later today), so we will have to wait for the meetings today and tomorrow (for Vioxx) to get clear punchlines."

"Celebrex CLASS Trial Confirms GI Safety (With Slight Wrinkle) – No Cardiovascular Risk," by Carl Seiden, Roopesh Patel, Tony Fiorino, and Gloria Tsuen, JP Morgan, analyst report, 17 April 2000, p. 2, Exhibit 17.

"Pharmacia's rationale for looking at the 26 week data only was that the greater withdrawal of patients from the diclofenac arm 'censored' later events (i.e., patients on diclofenac were more likely to develop symptoms and thus were disproportionately removed from the trial before having a chance to develop a serious upper GI events.)" *Ibid.*, p. 3.

- 164. Had there been full disclosure of the CLASS data with no obfuscation, the artificial inflation in the Pharmacia stock price may have dissipated more rapidly. But given the complexity of the data, coupled with Defendants' countervailing representations, which were reflected in Dr. Fiorino's analyst report, the process took three days.
- 165. On February 6th, the full CLASS data was posted, but were complex and accompanied by countervailing obfuscation. On February 7th, analysts and investors continued to analyze the data and were aided by the clarification provided by the FDA Advisory Committee's deliberations. Analyst reports published on February 7th, including Dr. Fiorino's, facilitated the market's digestion of the new information. The price revaluation process continued visibly on February 8th as additional analyst reports were published. Observable facts prove that the market's revaluation of Pharmacia stock in response to the CLASS disclosures took three days, from 6 February to 8 February 2001.
- 166. Dr. Fiorino's contention that this and all price reactions must be instantaneous is baseless, and contrary to financial principals and the observable facts in this case.

Dr. Fiorino's Attempt to Attribute the Price Decline to Other Events is Misguided

167. Dr. Fiorino contends that numerous issues unrelated to Celebrex caused Pharmacia's stock price to decline.

"Investors had significant concerns over a number of non-Celebrex components of Pharmacia's business during and after the Class Period, clouding any attempt to attribute a declining stock price over time to any single cause."

Fiorino Report, p. 7.

- 168. On pages 66-67 of his report, Dr. Fiorino lists the other events and issues he contends contributed to the stock price decline. These events and issues included tightening EPS guidance, Xalatan competition, competition with Ditropan XL, volatility in the Monsanto agriculture business, "lost revenues from the reversion of marketing rights to Ambien back to Sanofi in 2002," among others.
- 169. None of these issues emerged during the 6-8 February 2001 window when the Pharmacia stock price declined due to the corrective disclosures about Celebrex. In fact, Dr. Fiorino admits that these issues arose subsequently.

"Thus, multiple new risks to Pharmacia's business came to the market's attention after the fourth quarter/full year 2000 earnings report" Fiorino Report, p. 67.

170. The Q4 2000 earnings announcement was made on 12 February 2001. That Dr. Fiorino attempts to attribute the price reaction over the three days following the CLASS corrective disclosure to numerous issues and events that occurred a week later underscores the weakness in his analysis stemming from his lack of legitimate stock return attribution methodology.

Dr. Fiorino's Intraday Analysis is Improperly Selective and Factually and Methodologically Flawed

171. Dr. Fiorino concludes that the Pharmacia stock price decline on 8 February 2001 "cannot reasonably be attributed to anything other than" the FDA Advisory Committee announcement about Vioxx.

"The intraday chart (Figure 7) clearly demonstrates that the drop in Pharmacia's stock price began within minutes of the Advisory Committee's recommendation to grant a label change for Vioxx, accompanied by a large surge in the trading volume of Pharmacia's stock. This sharp decline on escalating volume cannot reasonably be attributed to anything other than the immediately preceding event, which was the FDA Arthritis Advisory Committee vote to recommend a Vioxx label change, which the market perceived as potentially detrimental to Celebrex's sales."

Fiorino Report, p. 33.

Factual Errors in Dr. Fiorino's Analysis of Intraday Prices On 8 February 2001

- 172. Dr. Fiorino's conclusion rests on factually flawed analysis. As described above, (similar to the factual errors contained in the Lehn Report) Dr. Fiorino uses the wrong time and prices to measure the decline immediately following the announcement. *Bloomberg* carried an *Associated Press* report of the Advisory Committee's decision at 12:51 p.m., more than two hours before the 3:06 p.m. time at which Dr. Fiorino places the announcement. As shown in Exhibit-8, the announcement at 12:51 p.m. was followed immediately by an increase in the price of Pharmacia stock, not a decrease.
- 173. Similarly, Dr. Fiorino neglects to analyze movements that occurred in the price of Pharmacia stock prior to 3:00 p.m., and thus fails to observe that Pharmacia stock declined from the closing price of \$56.13 per share on 7 February 2001 to \$54.30 per share by 10:40 a.m. on 8 February 2001, indisputably before the Vioxx announcement. From the prior day's close to this mid-morning point, the price declined \$1.83 per share, or 3.3%, which amounted to 58.5% of the total decline for the day.
- 174. Dr. Fiorino fails to consider the stock price slide in morning trading on February 8th, which appears to be a continuation of the previous day's reaction to the corrective disclosure.

Methodological Errors in Dr. Fiorino's Intraday Analysis

- 175. Dr. Fiorino's intraday analysis is riddled with methodological errors and oversights. The following is a list of the errors that render Dr. Fiorino's conclusions unreliable:
 - i. Failure to control for market and peer group effects;
 - ii. Failure to control for information affecting Pharmacia's chemical and agricultural business (which he stated was an important factor);
 - iii. Failure to consider the statistical problems arising from noise in intraday data that are well documented in the literature; and
 - iv. Failure to conduct the specialized testing required when working with intraday data.

Dr. Fiorino Fails to Consider Pharmacia Stock's Intraday Price Movement On 7 February 2001

- 176. On page 24 of his report, Dr. Fiorino examines intraday prices on February 6th. While Dr. Fiorino examines intraday pricing data on both February 6th and 8th, he chooses not to examine the intraday data on February 7th. Had he applied the same analysis on the February 7th data that he applies to the February 6th and 8th data (which I do not accept as reliable nevertheless), he would have noticed that the declines in Pharmacia Pharmaceuticals and Pharmacia stock occurred prior to the Advisory Committee's 2:25 p.m. decision regarding Celebrex, undermining his conclusion that the Committee announcement was responsible for the day's stock price decline.
- 177. While Dr. Fiorino embraces intraday price analysis for his purposes of arguing that the February 8th price declines were caused by Merck news, and that there was no stock price reaction to the news on February 6th, he fails to apply that same analysis to February 7th, when such analysis would contradict his stated loss causation opinion.

<u>Dr. Fiorino's Representations of Select Investment Manager Recollections is Unscientific</u> and Irrelevant

178. On pages 70 through 74 of his report, Dr. Fiorino relates the deposition testimony given by four individuals who worked for "Plaintiffs' money managers." Dr. Fiorino represents that these individuals share his opinion about the immateriality of the CLASS disclosures.

"I have reviewed the deposition transcripts of those individuals and was not surprised to find that the Plaintiffs' own investment managers share what this report has found to have been the market's perspective on the COX-2 inhibitors." **Fiorino Report**, p. 70.

179. There are at least two major flaws in Dr. Fiorino's argument pertaining to the testimony of these particular investment managers. First, Dr. Fiorino appears to have misinterpreted what they said. Second, Dr. Fiorino fails to appreciate the generally accepted financial principal that the market comprises and aggregates a wide range of often divergent views. Whereas rigorous event study analysis, which Dr. Fiorino eschews, scientifically gauges the materiality of information to the market as a whole, unscientific anecdotal sampling, which Dr. Fiorino relies upon, does not.

Dr. Fiorino Misinterprets the Investment Professionals' Testimony

- 180. While Dr. Fiorino contends that the excerpted testimony from the select individuals he cites support his contention that the CLASS data disclosure was immaterial, none of the investment professionals said that.
- 181. In fact, the quote from Jane Davenport's testimony that Dr. Fiorino presents on page 72 of his report specifically links the Pharmacia stock price decline to Celebrex not receiving the label modification, which was the inevitable fallout from the disclosed data. As discussed above, the full CLASS data was responsible for the Advisory Committee not recommending the label change.

"The stock has sold off recently, probably due mainly to the FDA advisory committee's recommendations suggesting that the new label for Celebrex will not be as advantageous as some have hoped."

Fiorino Report, p. 72, citing Deposition of Davenport, dated 27 June 2006, pp. 61-62.

The Market Aggregates Disparate Views

- 182. Moreover, Dr. Fiorino's reliance on statements from select individuals relating their recollections of their prior opinions cannot substitute for the rigorous analysis of market data that he does not conduct.
- 183. It is a fundamental and generally accepted financial economic principle that the market accommodates diversity of opinion and information, and aggregates divergent opinions

into a consensus price. A finance textbook co-authored by Economics Nobel Prize winner Robert Merton explains the concept thusly.

"To see how the current market price of the stock is determined, we look at the aggregation of all analysts' estimates, and assume that on average the market is in equilibrium (i.e. on average, the price will be such that the total (desired) demand equals total supply. ... Hence, the market price of the stock will reflect a weighted average of the opinions of all analysts." *Finance*, by Zvi Bodie and Robert Merton, Prentice Hall, 2000, pp. 206-207.

184. There will always be individual market participants who do not share exactly the consensus view. This fact is precisely why it is necessary to apply rigorous scientific analysis to gauge market opinion (*e.g.* event study analysis) rather than relying primarily on the expressed opinions of unscientifically selected individuals. This fact is precisely why Dr. Fiorino's approach is unreliable.

LIMITING FACTORS

185. This report is furnished solely for the purpose of court proceedings in the above named matter and may not be used or referred to for any other purpose. The analysis and opinions contained in this report are based on information available as of the date of this report. I reserve the right to supplement or amend this report, including in the event additional information becomes available.

Steven P. Feinstein, Ph.D., CFA

Exhibit-1

Documents and Other Information Reviewed and Relied Upon in Addition to Documents Cited in the Feinstein June Report

EXPERT REPORTS

- Expert Report of Dr. Kenneth M. Lehn, dated 7 June 2011.
- Expert Report of Dr. Michael Fiorino, dated 7 June 2011.

NEWS ARTICLES / PRESS RELEASES

- "Merck's Financial Health Hinges on Sales of Its New Arthritis Pill," by Robert Langreth, *Dow Jones Business News*, 14 April 1999.
- "FOCUS-FDA Panel backs Merck's Vioxx Painkiller," by Lisa Richwine, *Reuters News*, 21 April 1999.
- "The Cure: With Big Drugs Dying, Merck Didn't Merge It Found New Ones Some Inspired Research, Aided By a Bit of Luck, Saves Company's Independence The Path to a Novel Painkiller," by Gardiner Harris, *Wall Street Journal*, 10 January 2001.
- "Scientists Advise on New Drug Vioxx," Associated Press Wire, 8 February 2001.

ANALYST REPORTS

- "MRK's: VIOXX GI Outcomes Data Details Part 1," by Christina Heuer and Mark Striker, Salomon Smith Barney, Merck analyst report, 28 March 2000.
- "Celebrex CLASS Trial Confirms GI Safety (With Slight Wrinkle) No Cardiovascular Risk," by Carl Seiden, *et al.*, JP Morgan, analyst report, 17 April 2000, Exhibit 17.
- "Much Ado About Nothing!!! Fundamentals on Track, Stock Weakness Creates Buying Opportunity," by Barbara A. Ryan, *et al.*, Deutsche Banc Alex. Brown, Merck analyst report 29 January 2001.
- "FDA Review Of Celebrex More Negative Than Expected Panel Could Be Controversial," by Carl Seiden, *et al.*, J.P. Morgan Securities, Pharmacia analyst report 7 February 2001, [JPMC 001610-12].
- "FDA Unlikely to Improve Celebrex Label," by Joseph P. Riccardo, *et al.*, Bear Stearns, Pharmacia analyst report, 7 February 2001, [DEFEX 008229-31].
- "PHA: FDA Reviews Celebrex & Vioxx Safety Data," by Mark Striker and George Grofik, Salomon Smith Barney, Pharmacia analyst report, 7 February 2001.
- "Pharmaceuticals: Disappointing FDA Review of GI Safety Data for Celebrex," by Jeffrey Chaffkin, *et al.*, UBS Warburg, Pharmacia analyst report, 8 February 2001 [DEFEX 009148].

Exhibit-1

Documents and Other Information Reviewed and Relied Upon in Addition to Documents Cited in the Feinstein June Report

• "Initiating Coverage: Vioxx Withdrawal Could Present An Opportunity," by Jon Lecroy, M.D., *et al.*, Natexis Bleichroeder, Merck analyst report, 1 October 2004.

SEC FILINGS

- Merck & Co., Inc. Form DEF 14A, filed 22 March 2001.
- Merck & Co., Inc. Form 10-K for the Fiscal year Ended 31 December 2003, filed 10 March 2004.

ACADEMIC AND PROFESSIONAL LITERATURE

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DATA AND DATABASES

• TAQ (Trade and Quote) database

Exhibit-1

Documents and Other Information Reviewed and Relied Upon in Addition to Documents Cited in the Feinstein June Report

COMPANY DOCUMENTS

- Internal Email, dated 1 February 2001, Exhibit 352, [DEFS 00280719 30].
- Company Presentation, Exhibit-391, [DEFS 04133602 39].
- Internal Memorandum, Exhibit 125 [DEFS 02524647 61].
- Internal Emails, dated 16-17 April 2000, Exhibit 414, [DEFS 00122679 DEFS 00122680].
- Internal Memorandum, "Label Review Meeting," dated 27 April 2000, Exhibit 130 [DEFS 01433613].
- Deposition Transcript of Erick J. Lucera, 19 June 2006.
- Deposition Transcript of Jane Davenport, 27 June 2006.
- Deposition Transcript of Jeff Silverman, 27 June 2006.
- Deposition Transcript of David Thompson, 29 June 2006.
- Deposition Transcript of Fred Hassan, dated 22 February 2011.

OTHER

• Any other documents and data cited in the report.

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 272 of 550 PageID: 7906

Exhibit-2

Steven P. Feinstein, Ph.D., CFA Testimony Provided Since June Report

In Re Constar International Inc. Securities Litigation United States District Court Eastern District of Pennsylvania Civil Action No. 2:03-cv-05020-EL Deposition Testimony June 2011

Exhibit-3
Replication of Dr. Lehn's Pharmacia Regression Using Logarithmic Returns

Estimation Period: 17 April 2000 to 6 August 2001

Regression Statistics		
Multiple R	0.430	
Adjusted R Square	0.335	
Standard Error	1.93%	
Observations	329	
F-Statistic	4.512	
F-Statistic Significance Level	~0%	

	Coefficients	Standard Error	t -statistic
Intercept	-0.09%	0.11%	-0.82
NYSE Index	0.183	0.117	-1.537
Dr. Lehn Peer Index	0.907	0.088	10.323
17 April 2000	-0.40%	1.94%	-0.204
18 April 2000	-3.85%	1.95%	-1.973
24 April 2000	-1.74%	1.93%	-0.899
25 April 2000	-8.27%	1.95%	-4.239
26 April 2000	-0.58%	1.94%	-0.300
1 May 2000	-0.60%	1.93%	-0.311
2 May 2000	1.30%	1.93%	0.671
3 May 2000	3.85%	1.95%	1.977
19 May 2000	3.88%	1.94%	1.995
22 May 2000	-2.74%	1.93%	-1.420
23 May 2000	0.88%	1.93%	0.457
24 May 2000	-4.23%	1.93%	-2.189
8 June 2000	-0.22%	1.93%	-0.111

Exhibit-3
Replication of Dr. Lehn's Pharmacia Regression Using Logarithmic Returns

Estimation Period: 17 April 2000 to 6 August 2001

9 June 2000	3.81%	1.93%	1.972
12 June 2000	0.17%	1.93%	0.086
24 July 2000	-0.19%	1.94%	-0.100
25 July 2000	6.67%	1.93%	3.451
26 July 2000	1.68%	1.94%	0.868
12 September 2000	-1.06%	1.93%	-0.546
13 September 2000	0.85%	1.93%	0.442
14 September 2000	-0.88%	1.93%	-0.456
15 September 2000	-0.22%	1.93%	-0.116
18 September 2000	-1.84%	1.94%	-0.949
19 September 2000	1.29%	1.93%	0.669
27 October 2000	-1.87%	1.94%	-0.965
30 October 2000	-5.24%	1.95%	-2.693
31 October 2000	5.08%	1.95%	2.609
1 November 2000	4.19%	1.93%	2.171
5 February 2001	0.89%	1.93%	0.459
6 February 2001	-0.19%	1.93%	-0.096
7 February 2001	-2.92%	1.93%	-1.513
9 February 2001	1.77%	1.93%	0.914
12 February 2001	-0.63%	1.94%	-0.323
13 February 2001	-3.39%	1.93%	-1.752
24 April 2001	0.18%	1.93%	0.092
25 April 2001	-0.02%	1.94%	-0.013
26 April 2001	3.82%	1.93%	1.975
29 May 2001	-1.63%	1.93%	-0.843
30 May 2001	1.04%	1.93%	0.535
31 May 2001	0.91%	1.93%	0.469

Exhibit-3
Replication of Dr. Lehn's Pharmacia Regression Using Logarithmic Returns

Estimation Period: 17 April 2000 to 6 August 2001

24 July 2001	-1.60%	1.94%	-0.825
25 July 2001	-0.28%	1.94%	-0.142
26 July 2001	-1.64%	1.93%	-0.846
3 August 2001	0.80%	1.93%	0.413
6 August 2001	0.98%	1.93%	0.508

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 276 of 550 PageID: 7910

Exhibit-4
Replication of Dr. Lehn's Event Study Using Logarithmic Returns
Pharmacia Corporation

			Dr. Lehn's Peer	PHA	PHA				
	PHA Logarithmic	NYSE Index	Index Logarithmic	Explained	Residual		p-value	p-value	Statistically
Date	Return	Logarithmic Return	Return	Return	Return	t-statistic	1-tail	2-tail	Significant
17 April 2000	1.86%	1.42%	2.31%	2.26%	-0.40%	-0.21	41.85%	83.70%	No
18 April 2000	-1.98%	2.33%	1.69%	1.86%	-3.85%	-2.00	2.35%	4.70%	Yes
19 April 2000	11.87%	-0.24%	-1.28%	-1.30%	13.17%	6.83	0.00%	0.00%	Yes
17-19 April 2000	11.75%	3.50%	2.73%	2.83%	8.92%	2.67	0.40%	0.79%	Yes

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
10/18/2000	\$78.19		
10/19/2000	\$77.56		-0.80%
10/20/2000	\$81.88		5.41%
10/23/2000	\$84.75		3.45%
10/24/2000	\$85.44		0.81%
10/25/2000	\$87.31		2.17%
10/26/2000	\$86.69		-0.72%
10/27/2000	\$88.00		1.50%
10/30/2000	\$88.69		0.78%
10/31/2000	\$89.94		1.40%
11/1/2000	\$89.75		-0.21%
11/2/2000	\$89.13		-0.70%
11/3/2000	\$87.88		-1.41%
11/6/2000	\$90.00		2.39%
11/7/2000	\$86.88		-3.53%
11/8/2000	\$90.81		4.43%
11/9/2000	\$90.44		-0.41%
11/10/2000	\$91.50		1.17%
11/13/2000	\$89.38		-2.35%
11/14/2000	\$91.06		1.87%
11/15/2000	\$91.63		0.62%
11/16/2000	\$90.19		-1.58%
11/17/2000	\$88.50		-1.89%
11/20/2000	\$90.38		2.10%
11/21/2000	\$92.00		1.78%
11/22/2000	\$90.69		-1.44%
11/24/2000	\$89.44		-1.39%
11/27/2000	\$91.63		2.42%
11/28/2000	\$92.63		1.09%
11/29/2000	\$94.88		2.40%
11/30/2000	\$92.69		-2.33%
12/1/2000	\$90.63		-2.25%
12/4/2000	\$91.94		1.44%
12/5/2000	\$90.00		-2.13%
12/6/2000	\$89.56	\$0.34	-0.11%
12/7/2000	\$91.06		1.66%
12/8/2000	\$89.56		-1.66%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
12/11/2000	\$90.63		1.18%
12/12/2000	\$91.38		0.82%
12/13/2000	\$92.00		0.68%
12/14/2000	\$91.00		-1.09%
12/15/2000	\$90.38		-0.69%
12/18/2000	\$89.31		-1.18%
12/19/2000	\$91.50		2.42%
12/20/2000	\$93.38		2.03%
12/21/2000	\$92.50		-0.94%
12/22/2000	\$90.50		-2.19%
12/26/2000	\$92.69		2.39%
12/27/2000	\$92.69		0.00%
12/28/2000	\$94.75		2.20%
12/29/2000	\$93.63		-1.19%
1/2/2001	\$93.00		-0.67%
1/3/2001	\$89.13		-4.26%
1/4/2001	\$85.00		-4.74%
1/5/2001	\$83.31		-2.01%
1/8/2001	\$83.50		0.22%
1/9/2001	\$84.00		0.60%
1/10/2001	\$83.19		-0.97%
1/11/2001	\$81.63		-1.90%
1/12/2001	\$81.44		-0.23%
1/16/2001	\$83.31		2.28%
1/17/2001	\$81.25		-2.51%
1/18/2001	\$82.88		1.98%
1/19/2001	\$82.44		-0.53%
1/22/2001	\$82.31		-0.15%
1/23/2001	\$79.56		-3.40%
1/24/2001	\$78.94		-0.79%
1/25/2001	\$81.88		3.65%
1/26/2001	\$82.25		0.46%
1/29/2001	\$80.31		-2.39%
1/30/2001	\$81.00		0.86%
1/31/2001	\$82.18		1.45%
2/1/2001	\$84.48		2.76%
2/2/2001	\$83.97		-0.61%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
-	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
2/5/2001	\$84.48		0.61%
2/6/2001	\$84.36		-0.14%
2/7/2001	\$81.85		-3.02%
2/8/2001	\$82.97		1.36%
2/9/2001	\$82.72		-0.30%
2/12/2001	\$82.98		0.31%
2/13/2001	\$80.75		-2.72%
2/14/2001	\$79.63		-1.40%
2/15/2001	\$78.10		-1.94%
2/16/2001	\$77.29		-1.04%
2/20/2001	\$77.90		0.79%
2/21/2001	\$78.71		1.03%
2/22/2001	\$77.70		-1.29%
2/23/2001	\$77.08		-0.80%
2/26/2001	\$79.33		2.88%
2/27/2001	\$79.91		0.73%
2/28/2001	\$80.20		0.36%
3/1/2001	\$79.75		-0.56%
3/2/2001	\$80.15		0.50%
3/5/2001	\$79.53		-0.78%
3/6/2001	\$77.45		-2.65%
3/7/2001	\$74.40	\$0.34	-3.56%
3/8/2001	\$74.79		0.52%
3/9/2001	\$75.69		1.20%
3/12/2001	\$74.15		-2.06%
3/13/2001	\$72.93		-1.66%
3/14/2001	\$71.93		-1.38%
3/15/2001	\$74.05		2.90%
3/16/2001	\$71.45		-3.57%
3/19/2001	\$72.07		0.86%
3/20/2001	\$70.25		-2.56%
3/21/2001	\$67.96		-3.31%
3/22/2001	\$69.71		2.54%
3/23/2001	\$68.98		-1.05%
3/26/2001	\$71.48		3.56%
3/27/2001	\$73.61		2.94%
3/28/2001	\$75.15		2.07%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
3/29/2001	\$74.20		-1.27%
3/30/2001	\$75.90		2.27%
4/2/2001	\$74.25		-2.20%
4/3/2001	\$72.81		-1.96%
4/4/2001	\$74.48		2.27%
4/5/2001	\$75.78		1.73%
4/6/2001	\$76.42		0.84%
4/9/2001	\$78.00		2.05%
4/10/2001	\$78.39		0.50%
4/11/2001	\$77.15		-1.59%
4/12/2001	\$79.50		3.00%
4/16/2001	\$79.10		-0.50%
4/17/2001	\$80.85		2.19%
4/18/2001	\$79.30		-1.94%
4/19/2001	\$78.27		-1.31%
4/20/2001	\$73.61		-6.14%
4/23/2001	\$74.25		0.87%
4/24/2001	\$73.46		-1.07%
4/25/2001	\$74.86		1.89%
4/26/2001	\$74.85		-0.01%
4/27/2001	\$75.65		1.06%
4/30/2001	\$75.97		0.42%
5/1/2001	\$75.60		-0.49%
5/2/2001	\$74.91		-0.92%
5/3/2001	\$75.27		0.48%
5/4/2001	\$76.37		1.45%
5/7/2001	\$76.90		0.69%
5/8/2001	\$76.44		-0.60%
5/9/2001	\$77.32		1.14%
5/10/2001	\$76.52		-1.04%
5/11/2001	\$75.94		-0.76%
5/14/2001	\$76.69		0.98%
5/15/2001	\$75.90		-1.04%
5/16/2001	\$78.10		2.86%
5/17/2001	\$78.60		0.64%
5/18/2001	\$77.40		-1.54%
5/21/2001	\$77.40		0.00%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
5/22/2001	\$75.10		-3.02%
5/23/2001	\$74.00		-1.48%
5/24/2001	\$72.50		-2.05%
5/25/2001	\$72.60		0.14%
5/29/2001	\$74.39		2.44%
5/30/2001	\$73.28		-1.50%
5/31/2001	\$72.99	\$0.34	0.07%
6/1/2001	\$74.20		1.64%
6/4/2001	\$74.32		0.16%
6/5/2001	\$75.33		1.35%
6/6/2001	\$73.95		-1.85%
6/7/2001	\$74.81		1.16%
6/8/2001	\$74.22		-0.79%
6/11/2001	\$72.25		-2.69%
6/12/2001	\$72.61		0.50%
6/13/2001	\$73.13		0.71%
6/14/2001	\$73.90		1.05%
6/15/2001	\$73.75		-0.20%
6/18/2001	\$74.25		0.68%
6/19/2001	\$74.60		0.47%
6/20/2001	\$74.66		0.08%
6/21/2001	\$74.47		-0.25%
6/22/2001	\$67.80		-9.38%
6/25/2001	\$67.50		-0.44%
6/26/2001	\$66.22		-1.91%
6/27/2001	\$65.64		-0.88%
6/28/2001	\$65.00		-0.98%
6/29/2001	\$63.91		-1.69%
7/2/2001	\$64.35		0.69%
7/3/2001	\$64.70		0.54%
7/5/2001	\$64.14		-0.87%
7/6/2001	\$63.44		-1.10%
7/9/2001	\$64.60		1.81%
7/10/2001	\$63.72		-1.37%
7/11/2001	\$62.36		-2.16%
7/12/2001	\$61.00		-2.21%
7/13/2001	\$61.50		0.82%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
7/16/2001	\$62.98		2.38%
7/17/2001	\$64.48		2.35%
7/18/2001	\$67.55		4.65%
7/19/2001	\$67.30		-0.37%
7/20/2001	\$66.43		-1.30%
7/23/2001	\$65.70		-1.10%
7/24/2001	\$64.93		-1.18%
7/25/2001	\$64.99		0.09%
7/26/2001	\$64.76		-0.35%
7/27/2001	\$65.14		0.59%
7/30/2001	\$66.25		1.69%
7/31/2001	\$67.98		2.58%
8/1/2001	\$67.99		0.01%
8/2/2001	\$67.79		-0.29%
8/3/2001	\$68.11		0.47%
8/6/2001	\$67.42		-1.02%
8/7/2001	\$68.48		1.56%
8/8/2001	\$67.85		-0.92%
8/9/2001	\$67.82		-0.04%
8/10/2001	\$69.03		1.77%
8/13/2001	\$69.65		0.89%
8/14/2001	\$70.00		0.50%
8/15/2001	\$68.90		-1.58%
8/16/2001	\$69.99		1.57%
8/17/2001	\$69.15		-1.21%
8/20/2001	\$70.58		2.05%
8/21/2001	\$70.75		0.24%
8/22/2001	\$71.22		0.66%
8/23/2001	\$68.51		-3.88%
8/24/2001	\$69.02		0.74%
8/27/2001	\$68.70		-0.46%
8/28/2001	\$68.01		-1.01%
8/29/2001	\$67.14		-1.29%
8/30/2001	\$65.99	\$0.35	-1.20%
8/31/2001	\$65.10		-1.36%
9/4/2001	\$65.30		0.31%
9/5/2001	\$67.70		3.61%

Exhibit-5
Merck & Co., Inc.
Common Stock Prices, Dividends and Returns

			MRK
	MRK Closing	MRK	Logarithmic
Date	Stock Price	Dividend	Return
9/6/2001	\$65.75		-2.92%
9/7/2001	\$64.30		-2.23%
9/10/2001	\$66.10		2.76%
9/17/2001	\$67.15		1.58%
9/18/2001	\$68.31		1.71%
9/19/2001	\$67.86		-0.66%
9/20/2001	\$66.85		-1.50%
9/21/2001	\$65.70		-1.74%
9/24/2001	\$63.99		-2.64%
9/25/2001	\$62.45		-2.44%
9/26/2001	\$63.35		1.43%
9/27/2001	\$66.21		4.42%
9/28/2001	\$66.60		0.59%
10/1/2001	\$68.32		2.55%
10/2/2001	\$68.44		0.18%
10/3/2001	\$67.66		-1.15%
10/4/2001	\$67.10		-0.83%
10/5/2001	\$68.26		1.71%
10/8/2001	\$68.60		0.50%
10/9/2001	\$67.93		-0.98%
10/10/2001	\$68.49		0.82%
10/11/2001	\$68.18		-0.45%
10/12/2001	\$69.16		1.43%
10/15/2001	\$69.95		1.14%
10/16/2001	\$69.31		-0.92%
10/17/2001	\$69.05		-0.38%
10/18/2001	\$66.30		-4.06%

Source:

CRSP

Exhibit-6
Merck Stock Regression Results

Estimation Period: 19 October 2000 to 18 October 2001

Regression Statistics	
Multiple R	0.663
R Square	0.440
Adjusted R Square	0.424
Standard Error	1.46%
Observations	248
F-Statistic	26.93
F-Statistic Significance Level	~0%

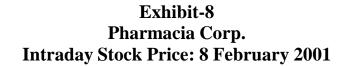
	Coefficients	Standard Error	t -statistic
Intercept	-0.05%	0.09%	-0.549
Market Index	-0.096	0.063	-1.521
Peer Index	0.920	0.068	13.434
6 February 2001	0.48%	1.46%	0.330
7 February 2001	-4.14%	1.47%	-2.825
8 February 2001	0.95%	1.46%	0.650
9 February 2001	-0.46%	1.47%	-0.315
12 February 2001	-0.48%	1.47%	-0.328

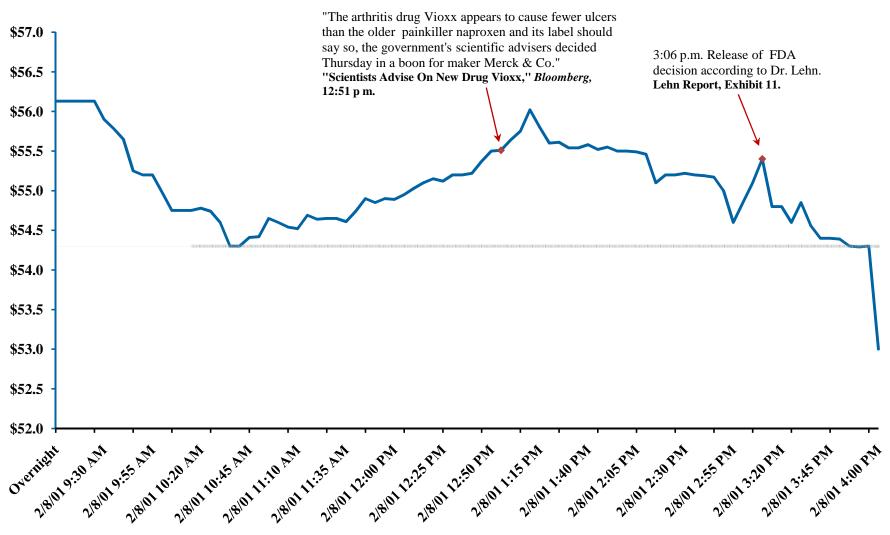
Exhibit-7

Merck & Co., Inc.

Common Stock Event Study Results

	I	MRK Closing Stock	MRK			MRK	MRK			
	MRK Closing	Price on Prior	Logarithmic	Market Index	Pharma Index	Explained	Residual			Statistically
Date	Stock Price	Trading Day	Return	Logarithmic Return	Logarithmic Return	Return	Return	t -statistic	p-value	Significant
7 February 2001	\$81.85	\$84.36	-3.02%	-0.88%	1.19%	1.13%	-4.15%	-2.83	0.0050	Yes
8 February 2001	\$82.97	\$81.85	1.36%	-0.65%	0.43%	0.41%	0.95%	0.65	0.5166	No
9 February 2001	\$82.72	\$82.97	-0.30%	-1.44%	0.08%	0.16%	-0.46%	-0.32	0.7518	No
12 February 2001	\$82.98	\$82.72	0.31%	1.03%	1.03%	0.79%	-0.48%	-0.33	0.7425	No
7-9 February 2001			-1.96%	-2.97%	1.70%	1.70%	-3.66%	-1.44	0.1499	No
8-12 February 2001			1.37%	-1.06%	1.54%	1.37%	0.01%	0.00	0.9982	No

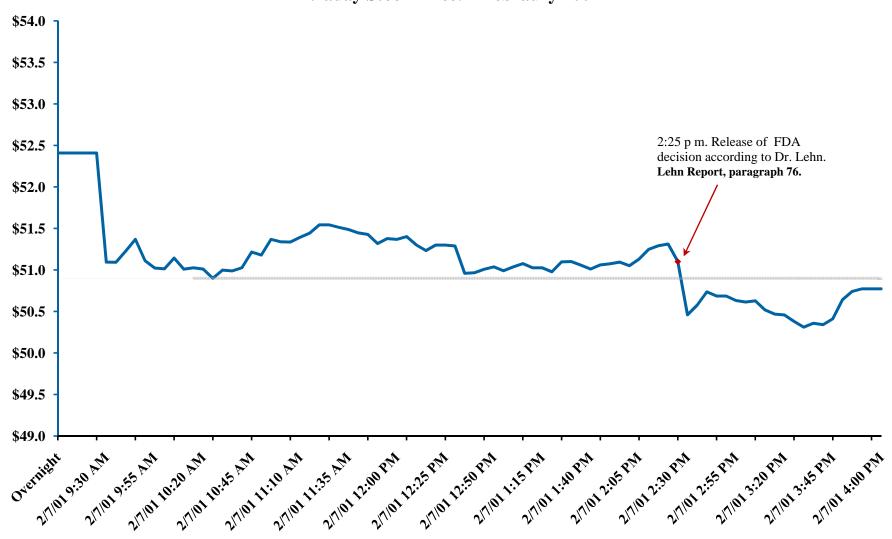




Source: TAQ.

Note: For comparison purposes the stock price data represents the last transaction price of each five minute increment.

Exhibit-9
Pharmacia Pharmaceuticals
Intraday Stock Price: 7 Febraury 2001



Source: TAQ.

Note: For comparison purposes the stock price data represents the last transaction price of each five minute increment.

EXHIBIT 8

1 3 UNITED STATES DISTRICT COURT ALSO PRESENT: 1 DISTRICT OF NEW JERSEY 2 ALASKA ELECTRICAL PENSION 3 FUND, et al., On Behalf of Themselves and All Others MR. KEVIN DAILEY, Legal Videographer, No. 03-1519 4 Esquire Deposition Solutions. Similarly Situated, (AET) Plaintiffs, 5 PHARMACIA CORPORATION, et al., 6 Defendants 7 The deposition of STEVEN GEIS, called for examination, taken before NICOLE SCOLA, CSR No. 084-004524, a Notary Public within and for the County of DuPage, State of Illinois, and a Certified Shorthand Reporter of said state, at Suite 900, One South Dearborn Street, Chicago, Illinois, on 8 9 10 December 10, 2010, at 9:06 a.m. 11 12 13 14 15 16 17 18 19 20 21 22 23 REPORTED BY: NICOLE M. SCOLA, CSR, RPR, 24 C.S.R. Certificate No. 84-4524. 2 THE VIDEOGRAPHER: Good morning. We're going 1 PRESENT: 1 2 2 on the video record at 9:06 a.m. 3 ROBBINS GELLER RUDMAN & DOWD, LLP, 3 My name is Kevin Dailey, and I'm a legal 4 (665 West Broadway, Suite 1900, 4 videographer in association with Esquire Deposition 5 San Diego, California 92101, 5 Solutions. Our address is 311 West Monroe, Chicago, 6 6 619-231-1058), by: Illinois 7 7 MR. SCOTT H. SAHAM, The court reporter is Nicole Scola, also 8 8 MR. LUCAS F. OLTS, of Esquire Deposition Solutions. 9 9 -and-Here begins the videotaped deposition of 10 SCOTT & SCOTT LLP, 10 Steven Geis, taking place at One South Dearborn, 11 11 Chicago, Illinois. (707 Broadway, Suite 1000, 12 12 Today's date is December 10, 2010. San Diego, California 92101, 13 13 This deposition is being taken in the 619-233-4565), by: 14 MR. MATTHEW MONTGOMERY, 14 matter of Alaska Electrical Pension Fund, et al. vs. 15 15 appeared on behalf of the Plaintiffs; Pharmacia Corporation, et al., being heard before 16 16 the United States District Court, the District of 17 17 CADWALADER, WICKERSHAM & TAFT LLP, New Jersey. 18 18 (One World Financial Center, Will counsel please state their names for 19 19 the record. New York, New York 10281, 20 20 MR. SAHAM: Scott Saham for the plaintiffs. 212-504-6474), by: 21 21 MR. MONTGOMERY: Matt Montgomery for the MR. JONATHAN M. HOFF, 22 22 MR. JOSHUA R. WEISS, plaintiffs. 23 23 appeared on behalf of the Defendants. MR. OLTS: Lucas Olts for the plaintiffs. 24 24 MR. HOFF: Jonathan Hoff for the defendants.



	5		7
1	MR. WEISS: Joshua Weiss for the defendants.	1	Q. Okay. Tell me the two job titles.
2	THE VIDEOGRAPHER: Will the reporter please	2	A. I think there were three. But in 1998, I
3	swear in the witness.	3	was and I might have this wrong an
4	(WHEREUPON, the witness was duly	4	executive an executive director for arthritis,
5	sworn.)	5	inflammation and pain.
6	STEVEN GEIS,	6	In the summer of 1999, I was promoted to
7	called as a witness herein, having been first duly	7	vice president for the therapeutic area of
8	sworn, was examined and testified as follows:	8	arthritis, inflammation and pain.
9	EXAMINATION	9	After the merger with Pharmacia, I became
10	BY MR. SAHAM:	10	the global vice president for arthritis,
11	Q. Good morning, Dr. Geis.	11	inflammation and pain, cardiovascular disease and
12	A. Good morning.	12	oncology.
13	Q. Could you please state and spell your	13	Q. And and during that time period, did
14	name for the record?	14	you work on the CLASS trial or CLASS study?
15	A. It's Steven Geis, G-e-i-s.	15	A. Yes, I did.
16	Q. And what is your current address?	16	Q. And what were your responsibilities with
17	A. 1945 North Seminary, Chicago,	17	respect to CLASS?
18	Illinois 60614.	18	A. I provided oversight for the the team
19	Q. And is there any reason today why you	19	that conducted the clinical trial.
20	cannot provide truthful and complete testimony,	20	Q. Okay. And prior to that, did you work on
21	medical or otherwise?	21	the NDA for Celebrex or Celecoxib?
22	A. No, there isn't.	22	A. Yes, I did.
23	Q. Now, bringing you back to the 1998	23	Q. And what was your responsibility with
24	through 2001 time frame, where were you employed?	24	respect to the NDA?
	6		8
1		1	
1 2	A. I was employed from 9 1998, I was	1 2	A. To provide oversight for the team that
	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after		A. To provide oversight for the team that were conducting the clinical trials and putting the
2	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you	2	A. To provide oversight for the team that
2	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after	2 3	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together.
2 3 4	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you said was the later date, I was an employee for	2 3 4	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together. Q. And were you the first-line manager with respect to those Celebrex NDA and the CLASS trial?
2 3 4 5	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you said was the later date, I was an employee for Pharmacia.	2 3 4 5	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together. Q. And were you the first-line manager with
2 3 4 5 6	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you said was the later date, I was an employee for Pharmacia. Q. Okay. And during that time frame, did	2 3 4 5 6	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together. Q. And were you the first-line manager with respect to those Celebrex NDA and the CLASS trial? MR. HOFF: Objection to form.
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2 3 4 5 6 7 8 9 10 11 12 13	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you said was the later date, I was an employee for Pharmacia. Q. Okay. And during that time frame, did you work with respect to a drug called Celebrex? A. Yes, I did. Q. Okay. And what was your job title at G.D. Searle? A. During that period? Q. Yeah, during well, I'll I'll represent to you, and we can show you a document	2 3 4 5 6 7 8 9 10 11 12	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together. Q. And were you the first-line manager with respect to those Celebrex NDA and the CLASS trial? MR. HOFF: Objection to form. BY THE WITNESS: A. Tell me what you mean by "first-line manager." BY MR. SAHAM: Q. Well, I A. That's not terminology used. Q. Sure. I understand that there are
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I was employed from 9 1998, I was employed by G.D. Searle & Company, and then after the merger with Pharmacia into the 2001, I think you said was the later date, I was an employee for Pharmacia. Q. Okay. And during that time frame, did you work with respect to a drug called Celebrex? A. Yes, I did. Q. Okay. And what was your job title at G.D. Searle? A. During that period? Q. Yeah, during well, I'll I'll represent to you, and we can show you a document A. Sure. Q later, that the merger with Pharmacia closed on March 31st of the year 2000. A. Okay. Q. So in the 1998 through March 31st, 2000, prior to the merger when you worked at G.D. Searle A. Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. To provide oversight for the team that were conducting the clinical trials and putting the NDA together. Q. And were you the first-line manager with respect to those Celebrex NDA and the CLASS trial? MR. HOFF: Objection to form. BY THE WITNESS: A. Tell me what you mean by "first-line manager." BY MR. SAHAM: Q. Well, I A. That's not terminology used. Q. Sure. I understand that there are individuals at the companies A. Sure. Q ranked above you in the chain of command, but were you the main executive responsible for those projects? A. The the clinical trials were conducted by my team. The NDA was put together predominantly by my team, and I provided oversight for that team.



	9		11
1	And I'd like to show you what I've marked	1	Q August 1998 to the present.
2	here as Plaintiffs' Exhibit 248.	2	A. Could you repeat the question?
3	Could you take a look at that document?	3	Q. My question is, this just emphasizes that
4	(WHEREUPON, a certain document was	4	you were, in part, responsible for submitting the
5	marked Plaintiffs' Deposition	5	Celecoxib NDA; is that correct?
6	Exhibit No. 248, for identification,	6	A. Yes, that was part of my
7	as of 12/10/2010.)	7	responsibilities.
8	BY MR. SAHAM:	8	Q. Okay. And during this time period that
9	Q. Tell me if you recognize it.	9	I'm focused on and I I guess I'd ask the
10	MR. SAHAM: For the record, 248 bears	10	question in two parts.
11	Bates numbers DEFS 00113653 through 69.	11	Initially, between August of '98 and the
12	BY THE WITNESS:	12	merger in March of of 2001, did you report to
13	A. Okay.	13	Dr. Friedman? Is that correct?
14	BY MR. SAHAM:	14	A. So March of 1998?
15	Q. Do you recognize this document?	15	Q. No, I'm sorry, just well well,
16	A. Yes.	16	let's make the question simpler.
17	Q. And what is it?	17	The the during 1999 and up until
18	A. This is a what I haven't read every	18	March of 2000 when the merger occurred, the end of
19	word of it, but it appears to be an old version of	19	March of 2000, did you report to Dr. Michael
20	what I would call my CV.	20	Friedman?
21	Q. Okay. And that's your curriculum vitae?	21	A. On yes, in principle, but there may
22	A. Yes.	22	have been a short period of time before that where
23	Q. And does it appear to be well, strike	23	Michael Friedman's predecessor was John Alexander,
24	that question.	24	and I reported to him, and then Friedman came in.
	10	+-	
	10		12
1		1	
1 2	It what is the purpose of your CV?	1 2	Q. Okay. And then Dr. Friedman reported to
	It what is the purpose of your CV? A. Well, in our profession, in the medical	1	Q. Okay. And then Dr. Friedman reported to Dr. Needleman; is that correct?
2	It what is the purpose of your CV? A. Well, in our profession, in the medical and scientific communities, we put together, I think	2	Q. Okay. And then Dr. Friedman reported to
2	It what is the purpose of your CV? A. Well, in our profession, in the medical and scientific communities, we put together, I think what in other circles is called a they use a	2 3	Q. Okay. And then Dr. Friedman reported toDr. Needleman; is that correct?A. I believe so, that was the reporting structure.
2 3 4	It what is the purpose of your CV? A. Well, in our profession, in the medical and scientific communities, we put together, I think what in other circles is called a they use a different term, but what this is, is, what is your	2 3 4	 Q. Okay. And then Dr. Friedman reported to Dr. Needleman; is that correct? A. I believe so, that was the reporting structure. Q. Okay. And then once the merger occurred
2 3 4 5	It what is the purpose of your CV? A. Well, in our profession, in the medical and scientific communities, we put together, I think what in other circles is called a they use a different term, but what this is, is, what is your work experience, historically, what is your	2 3 4 5	 Q. Okay. And then Dr. Friedman reported to Dr. Needleman; is that correct? A. I believe so, that was the reporting structure. Q. Okay. And then once the merger occurred in March of 2000, the end of March of 2000, who did
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	It what is the purpose of your CV? A. Well, in our profession, in the medical and scientific communities, we put together, I think what in other circles is called a they use a different term, but what this is, is, what is your work experience, historically, what is your educational background and what are the publications that you have your awards you've received, civic contributions and the publications that you have had published. Q. And at the beginning of the of your CV, it there's a section entitled Objective? A. Yes. Q. And right at the beginning there, it states that you were at least partly responsible for developing the blockbuster drug Celebrex; is that correct? A. Let me take a look at this. Yes, that's what that says. Q. And it also emphasizes that you participated in submitting the Celecoxib NDA? And	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. And then Dr. Friedman reported to Dr. Needleman; is that correct? A. I believe so, that was the reporting structure. Q. Okay. And then once the merger occurred in March of 2000, the end of March of 2000, who did you report to then? A. Frankly, it got a little bit uncertain as to when the new structure went in place, and I reported to a new boss versus when I was still reporting to Michael Friedman. Q. Okay. A. But ultimately, as things evolved, I reported to Mike Tansey at Pharmacia. Q. And it A. And it was probably toward the end of 2000 mid to end. Q. Okay. And then who who did Mr. Tansey report to? A. Dr. Tansey, I believe, reported directly to Dr. Goran Ando.



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was -- appeared to me, with the merger, an evolving 1 2 situation as to what the roles and responsibilities 3 would be to -- for the people who were a couple 4 levels above me. So Dr. Needleman was still there. 5 My understanding was, he shared responsibility for 6 R&D with Dr. Ando. 7 Q. So Dr. Ando and Dr. Needleman were chief 8

of R&D at Pharmacia?

 A. I can't say explicitly in terms of how I saw it from where I was. They were both providing guidance to R&D, but I can't tell you I ever saw an organizational structure that said, here's two guys, and this is what they're doing.

Q. Okay. But they were both above you at Pharmacia; is that correct?

A. Oh, yes.

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Q. Okay. And -- and they both reported to the CEO of the company, Mr. Hassan?

A. Directly reported? See, I don't know.

20 Q. Okay. Well, if you don't know, you don't 21 know.

A. I don't know.

23 Q. Okay. And do you recall who -- in that

24 2000 time frame, who -- who was your team of direct 15

CLASS trial, is it correct that you signed off on the protocols?

A. You know, I'd have to look at those protocols, because the -- the procedure changed over time, whether or not the director of the team was supposed to sign off.

Because for a while, we were supposed to sign off, and then they changed the process and they said the directors don't sign off. The medical guys actually running the studies sign off. So I'd have to look at the actual sign-off page to see.

Q. And I'll show you that in -- momentarily. But it -- it -- it's correct to say that

you participated in the design of the CLASS trial?

A. Yes, that's correct.

16 Q. And it's also correct to say that you participated in the analysis of the data once it was 17 18 unblinded?

A. Yes.

Q. And you started that process immediately after unblinding?

A. Immediately -- well, shortly after it was unblinded and I was given the data, we started it.

Q. And is it also accurate that you were the

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reports, to the extent you can recall them?

A. Wow. So there were many people on the team. And, again, the -- the reporting

4 relationships were moving because the organization

5 was changing and then -- and then we threw on top of 6 that the merger with Pharmacia. So I don't know if

7 I can say explicitly everybody who reported directly

8 to me.

Q. Just to make it easier --

A. I can tell you --

Q. -- who --

A. -- some of them.

Q. -- who do you recall that worked on the

14 Celecoxib team below you in that --

A. Okay.

Q. -- point in time?

A. Okay. So Dr. Ken Verburg, Dr. Jim Lefkowith, Dr. Jeff Kent, Aimee Burr. And that

would have been direct reporting to me.

Then there were -- were other people -excuse me -- from other departments, such as statistics and data management, who worked on it but did not directly report to me.

Okay. And -- and with respect to the

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1 senior author on the JAMA paper that was published 2 in September of 2000 regarding the CLASS trial?

MR. HOFF: Objection to form.

BY THE WITNESS:

A. I don't know what you mean by "the senior author."

7 BY MR. SAHAM:

> Q. Well, there were 13 authors and you were the last one listed.

Is that commonly referred to as the senior author?

A. No.

Q. Okay. You haven't heard the last author being listed as the senior author?

A. No.

Q. Is there any import of being the last person listed or the first person listed on a medical article?

A. I think some people give import to it in some circles. I don't necessarily do it.

Q. Okay. And that import would be, the first and last are the most prestigious places to

A. Not to me, but some people would say



17 19 Exhibit No. 77. that. 1 1 2 Q. One last question about your resume, 2 Could you please take a look at 3 3 which is -- or your CV, which is Exhibit 248. Plaintiffs' Exhibit 77. 4 On the third page of the document under 4 MR. SAHAM: Do you guys want two, or should I 5 Awards, you're awarded the Edgar M. Queeny award. 5 give them one? 6 Do you see that? 6 Thank you, Josh. 7 7 A. Yes. BY MR. SAHAM: 8 Q. And what's the Edgar M. Queeny award? 8 Q. And just quickly, you don't have to --9 In the Monsanto organization, this was an 9 you know, it's a lengthy document, but could you 10 award that was given. 10 just tell me what Exhibit 77 is, if you recognize 11 Q. Okay. And what -- what was the point of 11 it? 12 12 the award? A. The title of it is a revised clinical 13 A. My understanding is that it was given to 13 protocol for the multi-center, double-blind, 14 people who played a key role in taking a product 14 parallel group study comparing the incidence of 15 from more of the concept or the basic science stage 15 clinically significant upper gastrointestinal 16 16 reverse events associated with SC-58635 through commercialization. 17 Q. And you were awarded that for playing a 17 400 milligrams BID to that of Diclofenac 18 key role with respect to Celebrex; is that correct? 18 75 milligrams BID in patients with osteoarthritis or 19 A. I was awarded it with a number of other 19 rheumatoid arthritis, IDN # 48395, original protocol 20 20 people, yes. number N48-98-02-102(sic) (Revision 1). 21 Q. But with respect to your work on 21 Q. And do you recognize that -- this as 22 Celebrex? 22 being one of the protocols or amended protocols with 23 23 A. Yes. respect to the CLASS trial and the comparison to 24 Q. Okay. 24 Diclofenac? 18 20 A. That's correct. 1 1 A. Could you repeat the question? 2 2 Q. And I'd like to show you what's Q. My question is, do you recognize this as 3 previously been marked in this case as -- or before 3 being one of the revised protocols with respect to 4 I do that -- actually, I'll strike that question. 4 the CLASS trial and the comparison between Celecoxib 5 Additionally, when we were talking about 5 and Diclofenac? 6 6 your -- your role with CLASS just a minute ago, you A. Yes, this is part of the protocol. 7 7 also -- after the -- the data was -- was analyzed Q. Okay. And if you turn to the second page 8 8 and presented to the public, you -- you participated of the document, is that your signature? 9 on behalf of Pharmacia in talking about the data in 9 A. Yes, it is. 10 certain circles; is that correct? 10 And what was the purpose of your 11 11 signature here as vice president of clinical It's a bad question. I can ask it 12 12 research? differently. 13 13 A. To acknowledge that this was the final You -- you communicated publicly about 14 the CLASS data on behalf of Pharmacia, correct? 14 document to be put to use. 15 15 A. At -- at some point in time, I did. Q. And it's -- you dated the document 16 Q. And -- and I'm talking about in 2000, 16 October 27, 1998? 17 17 A. Yes, I did. after the data was unblinded and you analyzed it, 18 you communicated on behalf of Pharmacia about the 18 Q. Okay. And I'd like to refer you to --19 19 data to the public? well, let me just ask you generally, what's the 20 20 purpose of the revised clinical protocol? A. I think you -- I commun- - I communicated 21 21 to the public, I guess, as a representative of A. So first, maybe to tell you what a 22 22 Pharmacia would be accurate. protocol is, so the protocol is, the instructions as 23 23 to -- to -- it describes the intent of the study, Q. Okay. I want to show you what's

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previously been marked in this case as Plaintiffs'

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gives instructions as to how to conduct the study

and how we're going to analyze the study.

There are circumstances where after the original protocol is signed, that a change is desired to be made. So a revision is made for the protocol, and in our -- in our practice, although it isn't 100 percent of the case, the protocol is rewritten to incorporate the revisions into the document so there is one document.

Q. Okay. And I -- I'd like to turn your attention, if I could -- there's numbers in the top right-hand corner -- to page 10 of 36. And under Objectives, there's listed 2.1 Primary Objective.

Do you see that?

A. Yes, I do.

- Q. And that lays out the primary objective of the study; is that correct?
- A. It lays out the primary objective of this particular protocol, which is part of two that satisfies a larger objective.
- Q. Right. And that's because there's -there's -- and just correct me if I get this
 wrong -- there's the CLASS trial and there's one arm
 comparing Celecoxib to Ibuprofen, and then there's a
 separate arm comparing it to Diclofenac, and this is

- Q. -- want to lay out to you that there's -there's two separate protocols that are very
 similar, but one deals with the comparison or the
 conduct of the study with respect to Celebrex and
 Diclofenac, and then there's a similar one that
 deals with Ibuprofen. That's all I'm trying to
 understand.
 - A. Yeah, I think that's a fair description.
- Q. Okay. And this one that we're looking at, Exhibit 77, is the Diclofenac part of that?
 - A. Yes.
- Q. Okay. And looking at Primary Objective 2.1, that lays out that the primary objective of the study is to compare incidence of clinically significant upper gastrointestinal adverse events.

And then it goes on to say, A composite safety endpoint comprised of perforation, bleeding or gastric outlet obstruction associated with SC-58635 400 milligram BID to that associated with Diclofenac 75 MG BID in patients with OA or RA.

Is -- is that an accurate reading of the primary objective as spelled out in this protocol?

A. The primary objective of this particular protocol, yes --

1 the Diclofenac arm protocol?

A. I don't put it in those terms. When you talk about arms of the study, you talk about one arm is Celecoxib and people who are treated with Celecoxib. The other arm and the overriding objective of the CLASS trial was the NSAIDs combined in all patients receiving NSAIDs.

So there's two arms to the study. Within the NSAIDs group, there was two different NSAIDs.

- Q. And -- and this just spells out how the comparison is going to be conducted between Celecoxib and Diclofenac -- this protocol?
- A. This protocol describes how to conduct the clinical trial in patients who are going to receive Diclofenac in this trial versus Celebrex. It does, then, give some -- I believe there's a statistical section in here --
 - Q. We'll get to that in a second.
- A. -- which talks about -- because I think your question had to do with analyze, how it'll be analyzed.
- Q. No, I'm not -- and I'm not trying to be tricky. I -- I just --
 - A. No.

Q. Okay.

A. -- that is accurate.

Q. And -- and just to make things easier for the rest of the day, where it's talking about these clinically significant upper gastrointestinal adverse events, you, periodically, and you and your team and the folks at Pharmacia, you refer to those as -- I call them CSUGIEs, C-S-U-G-I-E; is -- is that accurate? That's one of the ways you refer to these?

A. No.

Q. What -- what would you call them? I mean --

A. The --

Q. -- the -- what acronym?

A. That was the team. The people who were, like, working on them day-to-day called them CSUGIEs.

Q. CSUGIE, but that's C-S-U-G-I-E?

A. Yeah, clinically significant upper GI events.

Q. And when we see that acronym in a document, it's referring to this?

A. Yes.



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	25		27
1	Q. And you also could call that a	1	a half pages long, what's the purpose of this
2	complicated ulcer; is that correct?	2	section in the protocol, generally?
3	A. I tend to call it complicated ulcer.	3	A. Let me go back.
4	Q. Okay. Or an ulcer	4	So this section, 5.5, is part of a bigger
5	A. That's the language I I'm used to	5	section called Statistics.
6	using.	6	Q. I can ask a more specific question
7	Q. Or some people call it an ulcer	7	A. Sure.
8	complication, as well?	8	Q if it would be easier.
9	A. Yeah.	9	A. But it is it is a a a shortened
10	Q. So when we're looking at the documents,	10	version of the overriding statistical analysis plan
11	we can	11	which will be used for the CLASS trial.
12	A. Yes.	12	Q. And and this lays out that there's
13	Q agree that that's all referring to the	13	there's two coprimary endpoints to be analyzed; is
14	same thing, unless you say	14	that correct?
15	A. Yeah.	15	A. I need to
16	Q different?	16	Q. Specifically
17	A. Yeah. There may be times when we have to	17	A look at it.
18	dissect it apart a bit, but	18	Q if you look I can I can help you
19	Q. Okay.	19	here. If you go to page 30, the second paragraph,
20	A yes, in principle, I would say yes.	20	it states, Two endpoints will be analyzed. One is
21	Q. Okay. And sometimes people call them a	21	based on the traditional definition and the other
22	POB or a perforation, obstruction or bleed?	22	alternative one is proposed by the FDA. These two
23	A. Right.	23	endpoints will be considered as coprimary; is that
24	Q. Okay. Great.	24	correct?
	26		28
1		1	28 A. These were two of other of more than
1 2	A. Right.	1 2	A. These were two of other of more than
	A. Right.Q. And then I'd like to turn your attention		
2	A. Right.	2	A. These were two of other of more than two endpoints that would be analyzed.
2	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And	2 3	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary
2 3 4	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period.	2 3 4	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct?
2 3 4 5	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that?	2 3 4 5	 A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that.
2 3 4 5 6	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do.	2 3 4 5 6	 A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that
2 3 4 5 6 7	 A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is 	2 3 4 5 6 7	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary,
2 3 4 5 6 7 8	 A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which 	2 3 4 5 6 7 8	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct?
2 3 4 5 6 7 8	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial	2 3 4 5 6 7 8	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah.
2 3 4 5 6 7 8 9	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever	2 3 4 5 6 7 8 9	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says
2 3 4 5 6 7 8 9 10	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first.	2 3 4 5 6 7 8 9 10	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah.
2 3 4 5 6 7 8 9 10 11	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that?	2 3 4 5 6 7 8 9 10 11	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed
2 3 4 5 6 7 8 9 10 11 12	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do.	2 3 4 5 6 7 8 9 10 11 12	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right.
2 3 4 5 6 7 8 9 10 11 12 13	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe	2 3 4 5 6 7 8 9 10 11 12 13	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug.	2 3 4 5 6 7 8 9 10 11 12 13 14	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug. Q. I'd like to turn your attention to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about if you go down to the bottom, it talks about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug. Q. I'd like to turn your attention to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about if you go down to the bottom, it talks about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug. Q. I'd like to turn your attention to page 30 of 36 actually, starting on page 29, 5	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about if you go down to the bottom, it talks about "symptomatic UGI ulcers."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug. Q. I'd like to turn your attention to page 30 of 36 actually, starting on page 29, 5 5.5. It's labeled, Analysis of Clinically	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about if you go down to the bottom, it talks about "symptomatic UGI ulcers." Do you see that, the bottom paragraph? I'm way at the bottom, but A. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Right. Q. And then I'd like to turn your attention now to page 20 of 36, so 10 pages further on. And there's a Section 4.3 Treatment Period. Do you see that? A. Yes, I do. Q. And it says the treatment period is defined as the four 52-week interval during which study medication is taken or until the trial officially concludes, which concludes, whichever occurs first. Do you see that? A. Yes, I do. Q. And that does that accurately describe the treatment period of the study? A. It describes the maximum period that patients would could receive drug. Q. I'd like to turn your attention to page 30 of 36 actually, starting on page 29, 5 5.5. It's labeled, Analysis of Clinically Significant UGI Adverse Events.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. These were two of other of more than two endpoints that would be analyzed. Q. Yeah, but these were the two primary endpoints, correct? A. No, I don't think that says that. Q. Well well, it does say right here that these two endpoints will be considered as coprimary, correct? A. Yes. Okay. Yeah. Q. And above that, it says A. Yeah. Q two endpoints will be analyzed A. Right. Q correct? A. Right. Coprimary for the purposes of of the FDA submission, yes. Q. Right. And then it it talks about if you go down to the bottom, it talks about "symptomatic UGI ulcers." Do you see that, the bottom paragraph? I'm way at the bottom, but



	29		31
1	A. Yes	1	A. Okay.
2	Q. At the bottom	2	Q. So so right after the data gets
3	A I see that.	3	unblinded.
4	Q. I'm sorry. And we I'm I'm bad at	4	A. Got you.
5	that, but we just have to	5	Q. Is it accurate that you made some
6	A. I apologize.	6	internal presentations and and I'll I'll
7	Q make sure we can't talk at the same	7	break them up that you you made an internal
8	time or	8	presentation to the Searle SMB in March of 2000
9	A. Agreed.	9	regarding the results of CLASS?
10	Q or she's going to get really angry.	10	A. So, again, things were changing and
11	A. Sorry.	11	acronyms for different committees and different
12	Q. So symptomatic UGI UGI ulcers, those	12	groups were changing.
13	were also referred to as GDUs or gastroduodenal	13	So as I recall it, SMB referred to Phil
14	ulcers; is that correct by some people on the	14	Needleman, his direct reports and people he invited
15	team?	15	into a meeting. That would be referred to as an SMB
16	A. Yes.	16	meeting.
17	Q. Okay. And do you call those symptomatic	17	So in that context, yes, I do remember
18	ulcers; is that fair?	18	presenting at that.
19	A. In in this in the context of this	19	Q. Okay. And let let's go a little
20	study, yes.	20	broader.
21	Q. Okay. Great. And down here at the	21	A. Yeah.
22	bottom here, it says, "Symptomatic UGI ulcers	22	Q. I'm getting at, you made a presentation
23	documented by endoscopy or UGI barium X-ray with no	23	of the of the data in March of 2000 to the senior
24	evidence of perforation, bleeding or obstruction	24	managers at Searle, which included Dr. Needleman
	30		32
1	will be categorized and summarized separately"; is	1	and what I'm I'm about to ask you is, were
2	that accurate?	2	there any other people senior to Dr. Needleman at
3	A. That's accurate.	3	that meeting?
4	Q. Okay. Now, we can put away Exhibit 77	4	A. If we're talking about the same meeting
5	for now.	5	that I remember, which was Dr. Needleman and his
6	I just wanted to ask you and I want to	6	reports and then other people for some other
7	take you the the time period I'm	7	departments, I believe, as I recall well, I hate
8	referring to now is the the data. I'll represent	8	to say I remember Al Heller being there, and I
9	to you that the and we can look at some documents	9	don't want to say that Al Heller was senior to
10	shortly later, but if this meets with your	10	Dr. Needleman because that might get me in trouble.
11	recollection, we can just go from there that the	11	But a high-level person on the commercial side was
12	data was unblinded from the CLASS study on or about	12	there. Whether he was higher than Dr. Needleman, I
13	March 17th of 2000.	13	don't know.
14	Does that purport with your recollection?	14	Q. And who is Al Heller?
15	A. The data was unblinded at that time, yes.	15	A. I believe he was, like I said, a
16	Q. Okay. And so I'm right now I'm	16	high-level guy on the commercial side, not the
17	referring to the period immediately after that, you	17	president, but pretty high up.
18	know, the the weeks and months, you know	18	Q. So he'd be like a senior executive vice
19	A. Okay. Immediate, we're going into	19	president?
20	months?	20	A. Like it, whatever that means.
21	Q. Yeah, let's let's say that that,	21	Q. Okay. You don't know his exact title
22	you know, for for initial for initial	22	A. No, I don't.
23	purposes, we're talk I'm talking about March and	23	Q but he was
24	April of 2000.	24	A. I don't.



	33		35
1	Q a senior commercial manager?	1	So when I'm talking about the entire
2	A. Right.	2	study, I'm simply just referring to the entire
3	Q. And would he have reported to to the	3	treatment period without, you know, stopping at a
4	CEO of Searle at that point in time?	4	certain point in time; is that fair?
5	A. I don't think there was a CEO because we	5	A. Well, I just want to be careful to make
6	were a subsidiary of Monsanto. So the CEO there	6	this make it sure. So this was a time-to-event
7	was a CEO of Monsanto, and I think the head guy at	7	study, so the analysis of the time-to-event, the
8	Searle was the president.	8	final event was presented for the GI complications
9	Q. And who was the president at that point?	9	and the symptomatic ulcers.
10	A. Dick De Schutter.	10	Q. Yeah, and there were a couple thousand
11	Q. And was he	11	people that took the drugs, in total, for more than
12	A. If I'm correct that he was called the	12	six months, correct or somewhere around there?
13	president. I just don't think he was called the	13	A. For more than six months? I'd have to
14	CEO.	14	look at the report to see if I would say it was a
15	Q. Okay. And was De Schutter at this	15	couple thousand.
16	meeting?	16	Q. But there were some number of people?
17	A. No.	17	A. Yeah.
18	 Q. Did you ever present CLASS to 	18	Q. I don't want to get caught up
19	De Schutter?	19	A. Yeah.
20	A. I don't recall ever, you know, seeing him	20	Q in the
21	in in any presentations.	21	A. Sure.
22	Q. You just don't know?	22	Q number.
23	A. But he might have been, because sometimes	23	A. Sure.
24	there were I presented to big groups. He could	24	Q. Okay. And when you made this
	34		36
1	have been in the room and I just didn't know he was	1	presentation to Needleman and Heller and the other
2	there.	2	senior folks at Searle, you didn't limit that
3	 Q. Okay. So you definitely presented to Al 	3	presentation to just the six months of data,
4	Heller and Needleman, and you may have presented to	4	correct?
5	De Schutter, you just don't recall?	5	A. No.
6	A. Right.	6	Q. It was the entire study data?
7	Q. And when you made the presentation in	7	A. The the entire study data as I defined
8	late March, would that have included the entire	8	the time-to-event until the last event occurred.
9	study data as opposed to just the 6-month data?	9	Q. Correct. So if someone took the drug
10	A. What do you mean by "the entire study	10	13 months, they would be in that presentation in
11	data"?	11	in the data, if you know?
12 13	Q. Okay. And I and I know that term gets confusing, like, because there's lots of things	13	A. In the analysis of the ulcer complications and the symptomatic ulcer data that we
14	you're looking at.	14	presented, yes.
15	A. Sure.	15	Q. Okay. And and all I'm trying to get
16	Q. But what I'm talking about is just for	16	at is, when you were internally talking about
17	the GI endpoints, and for right now, we can limit	17	A. Sure.
18	that, if you're comfortable with it, to the	18	Q it with these folks, you didn't limit
19	complicated ulcers and then the combination of	19	it to just
20	complicated ulcers and the symptomatic ulcers.	20	A. Sure.
21	A. Yes.	21	Q the six months?
22	Q. You know, and then you could obviously	22	A. It just gets you know, there's
23	look at that, cut off at six months, or you could	23	different definitions for some of this stuff, and I
24	look at it for as long as people were in treatment.	24	want to make sure I'm accurate.



Ste	even Geis 7932		December 10, 2010
	37		39
1	Q. Yeah. And that and that's unless	1	Q. Okay. And Mr. Fred Hassan was at that
2	we say different for the rest of this deposition,	2	meeting?
3	what I'm just for ease and simplicity	3	A. He was at that presentation, yes.
4	A. Sure.	4	Q. And was Goran Ando at that presentation?
5	Q when I'm talking about the entire	5	A. Yes.
6	study, I'm not talking about every the	6	Q. And was Carrie Cox at that
7	26,000 pages.	7	A. Yes.
8	A. Yes.	8	Q presentation? Okay.
9	Q. I'm just talking about the full	9	A. Yes.
10	there there's not this exclusion at six months	10	Q. And when you made the presentation to
11	A. Yeah.	11	those three individuals and other senior Pharmacia
12	Q it's just all the data for whether	12	managers, did you discuss the entire study data as
13	it's ulcer complications or the combined endpoint of	13	we just defined it?
14	symptomatic and complicated.	14	 A. Well, I don't remember exactly the slide
15	A. Okay.	15	set that was used and what was presented, but the
16	MR. HOFF: I don't know if that was a question,	16	content that I presented there was consistent with
17	but	17	the content that I presented at what we earlier
18	MR. SAHAM: No, no, that wasn't	18	talked about with the meeting with excuse me
19	MR. HOFF: I I object to it.	19	Dr. Needleman and and and the higher
20	MR. SAHAM: Okay.	20	management at Searle.
21	MR. HOFF: I think it would depend on the	21	So, yes, I would have presented the
22	context of your question.	22	time-to-event for the the entire exposure period
23	MR. SAHAM: Okay.	23	or the the last event, as well as the analysis
24		24	other analyses related to that.
	38		40
1	BY MR. SAHAM:	1	Q. Okay. So that presentation was not
2	Q. But but I just just to be clear	2	limited to the 6-month data?
3	so we can move on	3	A. It was not.
4	MR. HOFF: Right.	4	Q. And shortly after that time frame, still
5	BY MR. SAHAM:	5	in April of 2000, early April of 2000, let's say the
6	Q this this presentation that you	6	first couple weeks, did you make a presentation to
7	made in late late March, it wasn't limited to the	7	the operations committee of the joint COX-II
8	6-month data?	8	alliance?
9	A. That's correct.	9	A. I don't recall.
10	 Q. And shortly after that presentation, is 	10	Q. Okay. And and you recall that Searle
11	it correct that you traveled to New Jersey and made	11	had an alliance a marketing alliance with Pfizer
12	a presentation to the senior Pharmacia folks about	12	for selling and marketing Celebrex; is that correct?
13	the CLASS data?	13	A. My understanding, it was a codevelopment
14	A. Can you tell me what you mean by shortly	14	and comarketing alliance.
15	thereafter?	15	Q. Okay. And
16	Q. In early April of 2000 and we can look	16	A. So, yes, that's what I remember.
17	at documents	17	Q. And there were certain committees set up
18	A. Yeah, yeah.	18	where Pfizer people could interact with the Searle
19	Q approximately early April 2000, did	19	people?
20	you go to New Jersey to make a presentation	20	A. Yes, there were committees.

22

23

24

that you were on?



from Pharmacia, yes.

regarding CLASS to the senior Pharmacia executives?

A. That time frame sounds about right that I

did go and did present to some higher level people

21

22

23

Toll Free: 800.300.1214 Facsimile: 619.239.4117

Q. And there was an operations committee

A. I don't recall. I mean, the -- the term

operations committee sounds familiar, but I -- I --

I don't know if I was on it or not, but I -- I know the -- the term sounds correct and there were committees of people from Pfizer and Searle.

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- Q. Okay. And do you recall, in the same time frame, making a presentation of the CLASS data to one of those committees that had Pfizer folks on it?
- A. You know, I gave a lot of presentations within the organization during that period to -- to inform people about what we had found in the study, the complexity of having this codevelopment and comarketing thing with Pfizer, you know. So I can't remember, well, was it that -- were they there, and then you throw on the Pharmacia people?

And so there were committees and meetings, if you will, all over the place that I would go to to inform people who wanted or needed to know what we had found. But I can -- I can't tell you for certain I remember this one and this one and this one.

- Q. Okay. But at some point, you recall providing the CLASS results or some summary of the CLASS results to some of the Pfizer folks?
- A. I know it was presented. I just can't

43

- MR. SAHAM: And for the record, Exhibit 249 is a one-page e-mail chain bearing Bates number DEFS 01865173. The top e-mail is from George S.
- 4 Geis to various individuals, and it's dated
- 5 March 26, 2000.
- 6 BY MR. SAHAM:

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- Q. Is -- is George your middle name or your first name?
 - A. George is my first name.
 - Q. So you sometimes use George, right? I guess "use" is a bad word. Sometimes --
 - A. My mother does, but nobody else does.
- Q. Sometimes your e-mails say George as opposed to Steven?
- A. I know the -- you know, the IT guys do what they do, but it -- I go by Steve.
- Q. Okay. But a lot of times, your e-mail will say George; is that correct?
- A. So I see. I didn't -- wasn't aware of that.
- Q. And I -- my -- my first question is just, would -- do you recognize this e-mail?
 - A. Let me take a look.I don't recognize it, but it's an e-mail

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- tell you I remember the day, remember who was there. I just know it was presented. That's the best I can tell you.
 - Q. Okay. And when you made the presentation or the -- a -- a presentation to the Pfizer folks, would that have included the entire study data as opposed to just the six months?
- A. The content of all those presentations was the same as I described earlier for the -- what you had referred to as the SMB. So it would have been the time-to-event to the last event and other analyses that we did.
- Q. But it wouldn't have been limited to six months?
 - A. Correct.
- Q. I'm going to show you what I'm marking as Plaintiffs' Exhibit 249.

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 249, for identification, as of 12/10/2010.)

22 BY MR. SAHAM:

Q. Could you take a look at that document, please.

- Q. Right. So let me -- let me rephrase the question: Is this an e-mail chain you would have sent and received on or about March 26, 2000?
 - A. Well, based on this paper, it looks like
 I did do it. I don't know -- you said "would have sent." It looks like I did it.
 - Q. Right. So you -- you received an e-mail from Richard Marks on March 24th, and then you sent an e-mail to various folks on March 26th --
 - A. Yeah.

with my name.

- Q. -- is that correct?
- A. Yes, that's correct.
- Q. And you did this in the ordinary scope of your employment at Pharmacia?
 - A. Yes.
- Q. And in your e-mail at the top, you just indicate that Phil wants us to present CLASS on Wednesday.

Do you see that?

- A. Yes, I do.
- Q. And you're talking about Phil Needleman?
 - A. Yes, I am.
 - Q. And is this likely referring to the



presentation you described a few minutes earlier?

A. It sounds like it's within that time frame, and it sort of logically makes sense, yes.

Q. Okay. I want to show you what's previously been marked in this case as Plaintiffs' Exhibit 229.

MR. SAHAM: And, John, what I'm doing here -- I don't have the actual one with the stickers, so I'm just going to put a new 229 on it. You guys are okay with that? It's the same document.

MR. HOFF: If it's the same document, I don't care.

BY MR. SAHAM:

Q. Could you please take a look at that document, sir.

MR. SAHAM: And for the record, Exhibit 229 bears Bates numbers DEFS 01620662 through 728. BY MR. SAHAM:

Q. And then the last page, which maybe if you just turn to the last page of the document first, because this is something that's going to occur over and over again at this deposition.

The document was produced to us in an electronic format in this case, and they indicate

cabinet in the hallway with my name on it --

Q. Well --

A. -- I guess.

4 MR. HOFF: This is meta data, right?

MR. SAHAM: Yes. Mr. Hoff --

6 MR. HOFF: It would have been somehow 7 maintained electronically.

MR WEISS: That's the only way you have meta data.

MR. HOFF: Yeah. You wouldn't have meta data on a hard copy file --

THE WITNESS: Okay. Okay. I get it.

BY MR. SAHAM:

Q. So it -- so it came from your computers, basically, your computer files?

A. Some file that said it was mine.

Q. Yes, yes, yes. So I would like you to just -- it's a long document. I'd like to briefly ask you to look at it and tell me if you can identify what this SlideDeck is.

And it's dated -- on the front, it says 3/22/00 - CLASS.

A. Uh-huh. I mean, yes. I see that that's what it says.

- electronically something called the meta data. I'm
 not sure if you're familiar to that, but these
 - not sure if you're familiar to that, but these documents -- and -- and I'll represent to you, when
- 4 there's a page like that at the end that says, you
- 5 know, your name on it, defendants have represented
- to us in their production of these electronic
 materials that this document came out of your

custodial files.

So I'm -- I'm going to represent to you, when you look at this document, that this document's produced to us out of your custodial files at --

A. What does that mean --

Q. I think it means that --

A. -- my custodial files?

Q. -- your Pharmacia was -- was bought by Pfizer later, but your files, when you worked for either Pharmacia or Pfizer, were -- for the purposes of this or other litigations, were collected and formatted electronically and produced --

A. Are you saying it came out of a file cabinet?

Q. It could have been your computer. It could either be --

A. But it also could be out of some file

- Q. And I -- I just want to ask you if you can identify it for me.
 - A. Okay. Could you repeat the question?
 - Q. Well, my first question is, do you recognize this SlideDeck?

A. Can I give you sort of a bigger picture? Because this is a lot of stuff to say I recognize the deck. It suggests I'm answering that I recognize every slide.

Q. Right. Let me -- let me ask it differently, then --

A. Please.

Q. -- and you -- you'll get a chance to provide it.

A. Sure.

Q. Can you just identify what this is for me?

A. Right. So let me give you some context about this. It is common practice -- it was the practice within my team, over a period of years, that when we would get the results of a trial and there would be unblinding, the team would begin to look at the analyses in conjunction with the statisticians and begin to put slides together on



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49 how to most effectively present the data.

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As part of that process, they may do additional analyses and put those in slides. They would also put together slides that would answer what they thought would be potential questions about the data.

So it was a way of communicating their best ideas among one another was to make slide sets and put them together.

They -- and that really was the -- the common practice. So we had slide sets all over the place as a way of sharing ideas.

This looks like this was consistent with that as part of a SlideDeck for people sharing ideas as to thoughts about the CLASS trial. There's design slides. There's some analysis slides. There's background slides. There's some slides where it's -- it's not complete. It's like somebody sort of has an idea and tried to get it on a slide.

So in that context, I recognize it as part of a library of communications about ideas on the CLASS data.

Q. And -- and that's something that would have been maintained -- and I'm talking about

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electronic files -- or maybe, actually, this one 2 doesn't.

But I would represent to you -- I'm sorry, we don't have the meta data, but there's been an exhibit entered in this case -- or I'll -- I'll strike that.

I'll represent to you that this came from -- like the other one, it's -- for some reason, it doesn't have the attachment.

A. Okay.

Q. But I think Dr. -- at Dr. Verburg's deposition, I'm pretty sure we established that this document electronically came from your files. And if I'm wrong, I'm sure your counsel will correct me.

MR. HOFF: I have no idea.

BY THE WITNESS:

A. So is this the -- can I make a comment? I don't know how Dr. Verburg would know what was in my files.

BY MR. SAHAM:

Q. Well, no, I think I showed him that little -- it's -- maybe it's an exhibit I marked separately --

A. Okay.

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Exhibit 229 here -- in the ordinary course of

business of your team at Pharmacia; is that correct?

A. The word "maintained" throws me, because they would share it. They may give it to me. So it's not -- if it was in my file, I could very well assume somebody said, here, Steve, here's all of our ideas in one big batch.

Q. So -- so you wouldn't quibble with me that this is something that would have been in your electronic files from March of 2000 with respect to vour work at Pharmacia on Celecoxib?

A. I don't remember it. Could it have been? Yeah.

Q. I want to show you what's previously been marked in this case as Plaintiffs' Exhibit 65.

Could you please take a look at Plaintiffs' Exhibit 65.

And, again, I just want to ask you -- and maybe whether you recognize it is not the right question, but if you could just identify for me what this is.

And, again, Plaintiffs' Exhibit 65, if you look at the last page, it also bears that same meta data indication that this came from your

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Q. -- that little --

Okay.

Q. -- thing that looked exactly like the other one. And I'm sorry, I didn't bring it --

A. Okay.

Q. -- here today, but I'm -- I -- I know because I've marked it on --

A. Okay.

Q. -- my document that this, like Exhibit 249, came out of your electronic files.

A. Okay.

Q. And -- and I'd just ask you to -- to -to tell me if -- if you can tell me what this is generally. Or if it's exactly like 229, you can tell me -- tell me that, as well.

And this document is labeled on the front side, CLASS Vignettes, 3/28 version.

A. Uh-huh.

Q. And it's a 3-28-00 CLASS Backup. So obviously, it's a multipage slide set.

But I'd -- I'd ask if you -- if you can identify what Exhibit 65 is?

A. I can tell you what it -- I don't -- I don't recognize this specifically, but what it looks



53 55 1 (WHEREUPON, a certain document was like is consistent with how I described the previous 1 2 set of slides, which are a group of slides. It 2 marked Plaintiffs' Deposition 3 3 seems to be related to the CLASS trial that would be Exhibit No. 250, for identification, 4 different ideas that people had about analyses, 4 as of 12/10/2010.) 5 5 BY MR. SAHAM: presentation. 6 6 They're all labeled Draft, I think, in Q. Could you please take a look at 7 7 Plaintiffs' Exhibit 250. this. And there's even some -- a couple slides in 8 here that are about, it looks like, a -- a MR. SAHAM: And for the record, 250 bears 9 9 Bates numbers DEFS 01348832 through 921, and then it commercial rollout strategy or something. 10 10 does, on the last page, have the printout that Q. But are these slides that would have been 11 created by you or your team in the ordinary scope of 11 indicates that it came from your custodial files. 12 12 BY THE WITNESS: employment at Pharmacia during this period? 13 A. They look like they could have been. I 13 A. Well, the last page says -- has my name, 14 14 Ken Verburg and Jim Lefkowith, so ... can't say for sure. I mean, I can't say for --15 because some -- different people would put together 15 BY MR. SAHAM: 16 16 a slide and pass it off and say, here's an idea. Q. And -- and what that means is that it was 17 17 Sometimes I put together a slide and put it in a produced from multiple peoples --18 18 file. A. Okay. 19 Q. And if they were produced from your 19 Q. -- files --20 20 electronic files, they'd be something that you would A. Okay. 21 have received in this time period in the ordinary 21 Q. -- including your own. 22 22 scope of your employment? And, again, I -- I'd like you to look at 23 23 A. To say "received," I would say that's not it, and my -- my question to you is just, can you 24 unlikely. Because sometimes my secretary would 24 identify for -- for me what this is? And if it's 54 56 1 receive stuff from people and she'd put it into a 1 the same as what you were talking about before, you 2 2 can say that, as well. 3 3 Q. But these are documents, they're not --And it's labeled on the front, 4 this isn't like a personal e-mail or something, this 4 3/23/00 testing.ppt. 5 is a business document; is that fair to say? 5 A. Uh-huh, okay. Yes, I -- I see that 6 6 A. I'm reluctant to call it a document as that's what it says on the front. 7 7 though -- that this was put together as one big set Can I ask you a question? Is -- are some 8 8 at one time. This could have been the amalgamation of these -- it looks like -- is that because they 9 of, 15 slides are passed off on day 5, 20 more were 9 didn't print right, or is this -- can you say that 10 paid off -- you know, play -- you know, passed off 10 this is really what was in the file? 11 11 as they got more ideas. Q. It could have been a printing -- you 12 So this could have been the amalgamation 12 know, that foggy one. It could be -- you know, it's 13 of several sets of ideas in the form of slides 13 ten years ago -- whether the way they were --14 passed off and ended up in my -- my file. 14 A. Okay. 15 15 Q. And it would be passed to you by your Q. -- captured when they were presented to 16 Celecoxib team members? 16 us. 17 17 A. That would -- that would not be out of A. Okay. 18 18 the normal course of practice, correct. I can't Q. But I couldn't say for certain that --19 just say I know that this was. 19 A. Because some of it is, you know, very 20 20 Q. Okay. I want to show you what I'm difficult to look at. 21 marking as Plaintiffs' Exhibit 250. 21 Q. Looking at -- looking at all -- that all

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the copies have that, I would have to guess that

A. Okay. Could you repeat the question?

that's the way it was produced.

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Q. Yeah. I'm just asking if you could tell me what -- what this is, Exhibit 250, I'm referring to?

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A. These -- these are hard copies of what appear to be slides, all labeled Draft, that are -appear to be related to the CLASS study in some way, which would have been a way of sharing ideas consistent with what I talked about earlier, about the team putting ideas together, about the study, about the analysis, about the results, and shared in the form of -- of draft slides.

Q. And -- and these would have been in your -- strike that.

This would have been something that you received during March of 2000 in your employment at Pharmacia?

A. I don't remember seeing it, but it -- it looks like something I could have received, because this was the process with which the team shared ideas back and forth, was in the form of slides such as these.

Q. I want to show you what's previously been marked in this case as Plaintiffs' Exhibit 220.

Could you please take a look at

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- A. Well, like I said earlier, at this time,
- 2 which would have been April 5th, I'm not sure who I
 - would say was head of R&D.
 - Q. But it was either --
 - A. Anywhere.
 - It was either Needleman or Ando, correct?
 - A. Yeah. Yes, correct.
 - Q. So they were either coheads or one was
- 9 the other's boss?
 - A. I think that sounds about correct.
 - Q. Okay. And this appears to be comments that Dr. Ando shared with Dr. Friedman and Dr. Needleman with respect to your presentation regarding CLASS that had occurred in early April; is that fair to say?
 - A. Yeah. The part that's from Dr. Ando -because this is a chain of e-mails, but the part from Dr. Ando to Drs. Friedman and Needleman are his comments on the presentation and thoughts.
 - Q. And this would help place the date of that presentation as, at least, some point before April 5th of 2000; is that correct?
 - A. Yeah, that appears to be correct.
 - And was it your --

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Plaintiffs' Exhibit 220.

MR. SAHAM: And for the record, 220 is a two-page e-mail chain that -- the second from top e-mail was -- with the rest of the chain below it, was forwarded to you, apparently, by Dr. Friedman who received it, along with Dr. Needleman, from Dr. Ando on April 5th, 2000. It appears to have been forwarded to you on that same date. BY MR. SAHAM:

- Q. And I'd ask you if you recognize this document?
 - A. Could you repeat the question?
- Q. Well, my first question, is this an e-mail that you would have received in the ordinary course of your employment at Pharmacia on or about April 5th, 2000?
- A. According to this piece of paper, it came to me through Michael Friedman, yes, but I don't recognize this.
- Q. Okay. And -- and Dr. Friedman was your boss at this time?
- A. Correct.
- 23 Q. And Dr. Ando was the head and R&D -- head of R&D at Pharmacia?

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- A. Let me -- when you say "that 2 presentation," can I make -- make it clear?
 - Q. Sure. I'm talking --
 - A. Somehow Dr. Ando had this presented to him in order for him to make comments. If you're referring to "that presentation" being the one we talked about earlier with Carrie Cox, et cetera, you know, I can't say for sure that that's the only place Goran Ando would have heard this.
 - Q. Okay.
 - A. So I just want to be -- I just want to be precise about this, that I don't remember.
 - Appreciate that.

But you know what you presented to Cox, Hassan and Ando in early April, correct?

- Α.
- And you -- there also may have been additional presentations or information provided to Dr. Ando, but you're just not certain of that?
 - A. Correct.
- Q. And was it your practice in this period -- and I'm -- I'm really specifically talking about the presentation to Needleman and his group and the presentation to Hassan, Cox and Ando that



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1	we've discussed earlier.	1	Q. And this came out of Aimee Burr's
2	Was it your practice to use PowerPoint	2	custodial file, which I believe you said was one of
3	slides at those two presentations or or strike	3	your reports?
4	that. Let me ask it in two parts.	4	Burr worked for you at that period,
5	Was it your practice to use PowerPoint	5	right?
6	slides when doing this type of presentation	6	A. Aimee Burr did not report directly to me,
7	regarding, you know, study data?	7	but Aimee Burr was on, if you will, the arthritis,
8	A. We used a combination of PowerPoint I	8	inflammation and pain team and worked on the CLASS
9	personally so I'm only going to speak for me. I	9	trial.
10	personally found using PowerPoint slides as very	10	Q. And and this set of slides is is
11	a way to you know, it give the presentation	11	the draft CLASS Celecoxib long-term arthritis safety
12	effectively, but we also used what do you call	12	study, 4300-CLASS.
13	those things? flip charts	13	Do you know well, strike that.
14	Q. Okay.	14	Could some of these slides been used in
15	A in in the course of it.	15	your presentation to Dr. Hassan and Dr. Ando and
16	Q. So in 2000 when you'd make a presentation	16	Ms Ms. Cox?
17	about a trial, you'd use PowerPoint and flip charts	17	A. If they came out of Aimee's custodial
18	generally?	18	file, no, because I wouldn't have taken something
19	A. Generally, yes. I would, yes.	19	out of someone else's custodial file.
20	Q. And do you recall and I'm going to	20	 Q. Okay. And with respect to the other
21	first refer you to the presentation to Dr. Needleman	21	three slide decks we looked at earlier which we've
22	and his group at Searle.	22	marked you know, that are all dated March that
23	Do you recall using PowerPoint at that	23	we've marked as 250, 65
24	presentation?	24	A. I'm sorry, I want to keep up with you.
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1	62 A. So if we're referring back to what you	1	
1 2		1 2	64 Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks.
	A. So if we're referring back to what you	1	Q. Yeah. Yeah, I'm sorry. It's exhibits
2	A. So if we're referring back to what you talked about as the SMB meeting	2	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks.
2	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct.	2 3	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right.
2 3 4	 A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and 	2 3 4	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks.A. Right.Q. 250, 65 and 229, those all came out of
2 3 4 5	 A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. 	2 3 4 5	 Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files.
2 3 4 5 6	 A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to 	2 3 4 5 6	 Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of
2 3 4 5 6 7	 A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in 	2 3 4 5 6 7	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your
2 3 4 5 6 7 8	 A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. 	2 3 4 5 6 7 8	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or
2 3 4 5 6 7 8	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April.	2 3 4 5 6 7 8	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April?
2 3 4 5 6 7 8 9	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that	2 3 4 5 6 7 8 9	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember.
2 3 4 5 6 7 8 9 10	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation?	2 3 4 5 6 7 8 9 10	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that
2 3 4 5 6 7 8 9 10 11	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do	2 3 4 5 6 7 8 9 10 11	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those?
2 3 4 5 6 7 8 9 10 11 12	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay.	2 3 4 5 6 7 8 9 10 11 12 13	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes. Q. I want to show you what's been marked	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts about the CLASS study, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes. Q. I want to show you what's been marked previously as Exhibit 221.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts about the CLASS study, yes. Q. Okay. I want to show you what's
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes. Q. I want to show you what's been marked previously as Exhibit 221. Could you please take a look at that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts about the CLASS study, yes. Q. Okay. I want to show you what's previously been marked in this case as Plaintiffs'
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes. Q. I want to show you what's been marked previously as Exhibit 221. Could you please take a look at that document?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts about the CLASS study, yes. Q. Okay. I want to show you what's previously been marked in this case as Plaintiffs' Exhibit 84.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. So if we're referring back to what you talked about as the SMB meeting Q. Correct. A yes, it would have been PowerPoint and flip chart. Q. And now I want to refer specifically to the Hassan, Cox, Ando meeting in A. Uh-huh. Q early April. Do you recall using PowerPoint at that presentation? A. I do Q. Okay. A and flip chart. Q. Okay. So you did use PowerPoint at both of those meetings? A. Yes. Q. I want to show you what's been marked previously as Exhibit 221. Could you please take a look at that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Yeah. Yeah, I'm sorry. It's exhibits the the three big decks. A. Right. Q. 250, 65 and 229, those all came out of your files. Is it possible that you borrowed some of those slides or used some of those slides in your presentation to Dr. Hassan in early April or Mr. Hassan in early April? A. I don't remember. Q. But are those the types of slides that you would have used at least some of those? A. The formats look like what we would have used, but I I I don't remember. Q. And and these decks are certainly communicating the CLASS results, correct? A. They're communicating early thoughts about the CLASS study, yes. Q. Okay. I want to show you what's previously been marked in this case as Plaintiffs'



BY MR. SAHAM:

Toll Free: 800.300.1214 Facsimile: 619.239.4117

MR. SAHAM: And for the record, Plaintiffs'

	65		67
1	Exhibit 84 came out of your custodial files, and	1	Q. Did you help him prepare it, or your
2	it's labeled April 7, 2000 Celebrex Long-Term	2	team?
3	Arthritis Safety Study, and it says Rollout	3	A. Yes.
4	Strategy. It's a little difficult to read, but	4	Q. Okay. And so you had input into the
5	And it bears Bates numbers DEFS 01427984 through	5	slides that he provided or used?
6	008.	6	A. Yes.
7	BY MR. SAHAM:	7	Q. Okay. And this this slide here is
8	Q. Okay. And then this, again, came out of	8	labeled Issues Generated from ACP?
9	your electronic files, and I'd ask if you could	9	A. That's what it says.
10	identify what it is?	10	Q. Okay. But you're not really sure what
11	A. No, I cannot.	11	it's referring to?
12	Q. Okay. Does it, again, seem to be	12	A. No.
13	something similar to what you referred to with	13	Q. Okay. And then I'd like you to turn to
14	respect to the other slide decks?	14	the page 997, so a couple more pages further.
15	A. No. This is completely different.	15	A. Uh-huh
16	Q. Okay. But you're not you're not sure	16	Q. And it says media
17	what it is?	17	A ves.
18	A. I am not.	18	Q and analyst post-ACP?
19	Q. Does it appear to be a presentation that	19	Do you see that?
20	you made?	20	A. I do.
21	A. I would say absolutely no, it's not a	21	Q. And it says, press release, release
22	presentation I would have made.	22	issued Monday, April 17th a.m.
23	Q. But you're not disputing that it came out	23	Do you see that?
24	of your electronic file?	24	A. I do.
	66		68
1		1	
	A. Well, whoever wrote this page that said		Q. Do you recollect that the first press
1 2 3	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came	1 2 3	Q. Do you recollect that the first press release that Pharmacia issued with respect to the
2	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file.	2	Q. Do you recollect that the first press
2	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two	2 3	 Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall.
2 3 4	 A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's 	2 3 4	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th?
2 3 4 5	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand	2 3 4 5	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out
2 3 4 5 6	 A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's 	2 3 4 5 6	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set?
2 3 4 5 6 7	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are	2 3 4 5 6 7	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure.
2 3 4 5 6 7 8	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three	2 3 4 5 6 7 8	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the
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2 3 4 5 6 7 8 9	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh.	2 3 4 5 6 7 8 9	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe
2 3 4 5 6 7 8 9 10	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues	2 3 4 5 6 7 8 9 10	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was
2 3 4 5 6 7 8 9 10 11	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP?	2 3 4 5 6 7 8 9 10 11	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know?
2 3 4 5 6 7 8 9 10 11 12	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes.	2 3 4 5 6 7 8 9 10 11 12	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes. Q. Is ACP, is that referring to the American College of Physicians? A. I don't know for sure. Q. But do you recall rolling out the data at	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled stuff Q. Okay. A or it's just wrong. Q. And in looking at this 997 page, another
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes. Q. Is ACP, is that referring to the American College of Physicians? A. I don't know for sure. Q. But do you recall rolling out the data at the ACP? Was that one of the first places that it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled stuff Q. Okay. A or it's just wrong. Q. And in looking at this 997 page, another thing it says is Media teleconference, 10:00 a.m.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes. Q. Is ACP, is that referring to the American College of Physicians? A. I don't know for sure. Q. But do you recall rolling out the data at the ACP? Was that one of the first places that it was talked about, the CLASS results?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled stuff Q. Okay. A or it's just wrong. Q. And in looking at this 997 page, another thing it says is Media teleconference, 10:00 a.m. Monday morning, Silverstein, Simon, Whelton, medical
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes. Q. Is ACP, is that referring to the American College of Physicians? A. I don't know for sure. Q. But do you recall rolling out the data at the ACP? Was that one of the first places that it was talked about, the CLASS results? A. A presentation on CLASS was given at ACP.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled stuff Q. Okay. A or it's just wrong. Q. And in looking at this 997 page, another thing it says is Media teleconference, 10:00 a.m. Monday morning, Silverstein, Simon, Whelton, medical spokespersons.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Well, whoever wrote this page that said custodian, I if they got it right, then it came out of my file. Q. Okay. And I'd like to refer you to two specific pages of this SlideDeck. The there's those little Bates numbers in the bottom right-hand corner. If you can go to the last three that are numbered 995. I'm referring to the last three Bates numbers. A. Uh-huh. Q. And this is it it had an Issues Generated from ACP? A. Yes. Q. Is ACP, is that referring to the American College of Physicians? A. I don't know for sure. Q. But do you recall rolling out the data at the ACP? Was that one of the first places that it was talked about, the CLASS results? A. A presentation on CLASS was given at ACP. Q. And was that given by Dr. Silverstein?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Do you recollect that the first press release that Pharmacia issued with respect to the CLASS results was issued on April 17th? A. I don't recall. But but could I point something out that's sort of thrown me about this whole set? Q. Sure. A. It identifies ACP was on 4/15, but the date on some of these slides is April 7th. Q. Right. So does this appear to be maybe like a draft or something that may was anticipated possibly being used, or you don't know? A. I don't know, or somebody mislabeled stuff Q. Okay. A or it's just wrong. Q. And in looking at this 997 page, another thing it says is Media teleconference, 10:00 a.m. Monday morning, Silverstein, Simon, Whelton, medical spokespersons. Do you recall being on a teleconference



	69		71
1	the CLASS trial?	1	A. She's an employee at Searle.
2	A. I didn't give the presentation at ACP	2	Q. And what do you know what their jobs
3	Q. But	3	were, generally?
4	A no.	4	A. They were on the commercial side what
5	Q but do you recall being on conference	5	I call the commercial side of the organization.
6	calls with reporters about the CLASS study?	6	Q. Okay. And do you know why this document
7	A. At some point. I don't I don't I	7	would have been in your electronic files?
8	don't believe it was at this time.	8	A. Other than I received tons of e-mails
9	Q. Okay. And I'm not trying to refer to	9	with attachments from different parts of the
10	ACP, I'm just generally saying	10	organization.
11	A. Right. But this so if we are talking	11	Q. Okay. And this is a document you would
12	about right around ACP and very early, I do not	12	have received in your capacity in working for that
13	re recall talking to reporters at all.	13	organization, whether it's Searle or Pharmacia at
14	Q. And then the the last two bullet	14	this point in time?
15	points say, Coordinated international distribution	15	A. Quite frankly, I'm surprised because this
16	of press release, analyst briefing Monday,	16	is not something I recognize, like, at all. So
17	April 17th, a.m.	17	I'm it may have come through, but it's not
18	Do you see that?	18	something I would say, yes, I used to see these
19	A. I do see that.	19	kinds of documents. I
20	Q. Do you recall there being briefings of	20	Q. And, again
21	securities analysts in the April time frame?	21	A I don't even recognize the font on
22	A. I don't recall any of this.	22	this.
23	Q. Okay. But you again, you don't	23	Q. Okay. And Al Heller who's a cc, you
24	dispute that this was in your electronic files?	24	identified him earlier as being a senior commercial
	70		72
1	70 A. I don't dispute that the last page says	1	72 guy at Searle?
1 2		1 2	
	A. I don't dispute that the last page says	1	guy at Searle?
2	A. I don't dispute that the last page says that.	2	guy at Searle? A. Where is Al Heller cc'd on this?
2	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as	2 3	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down.
2 3 4	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as Plaintiffs' Exhibit 251. (WHEREUPON, a certain document was marked Plaintiffs' Deposition	2 3 4 5 6	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down. A. Oh, yes. Correct, yes. Q. And what about Joe Papa, was he a senior commercial guy?
2 3 4 5	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as Plaintiffs' Exhibit 251. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 251, for identification,	2 3 4 5 6 7	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down. A. Oh, yes. Correct, yes. Q. And what about Joe Papa, was he a senior
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as Plaintiffs' Exhibit 251. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 251, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document. MR. SAHAM: And, again, this document indicates was indicated in the meta data that it came from your electronic files. It bears Bates numbers DEFS 00115007 through 019, and it's dated April 7th, 2000. It's from Kerstin Schultz. You're not listed as a cc or, no, sorry, it's to Kerstin Schultz from Michael M. Cunnington. And it says March Management Report. BY MR. SAHAM: Q. Do you know who Michael M. Cunnington is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down. A. Oh, yes. Correct, yes. Q. And what about Joe Papa, was he a senior commercial guy? A. I I don't know what his role was. I know he was on commercial and he was at Searle. Q. And then looking again, I just want to turn you to the last three Bates numbers, 011. Up at the top, there's a bullet point. A. I'm on that page. Q. The top bullet point says, Results from Celebrex long-term safety study are under analysis. Communication of results and commercialization plans will be finalized with senior management on April 7th. Do you recall being involved in that process of the finalization of the communication of the results of CLASS? A. I'm I'm not sure what you mean by the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as Plaintiffs' Exhibit 251. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 251, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document. MR. SAHAM: And, again, this document indicates was indicated in the meta data that it came from your electronic files. It bears Bates numbers DEFS 00115007 through 019, and it's dated April 7th, 2000. It's from Kerstin Schultz. You're not listed as a cc or, no, sorry, it's to Kerstin Schultz from Michael M. Cunnington. And it says March Management Report. BY MR. SAHAM: Q. Do you know who Michael M. Cunnington is? A. Mike Cunning Michael Cunnington was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down. A. Oh, yes. Correct, yes. Q. And what about Joe Papa, was he a senior commercial guy? A. I I don't know what his role was. I know he was on commercial and he was at Searle. Q. And then looking again, I just want to turn you to the last three Bates numbers, 011. Up at the top, there's a bullet point. A. I'm on that page. Q. The top bullet point says, Results from Celebrex long-term safety study are under analysis. Communication of results and commercialization plans will be finalized with senior management on April 7th. Do you recall being involved in that process of the finalization of the communication of the results of CLASS? A. I'm I'm not sure what you mean by the "finalization of the communication."
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't dispute that the last page says that. Q. I want to show you what I'm marking as Plaintiffs' Exhibit 251. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 251, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document. MR. SAHAM: And, again, this document indicates was indicated in the meta data that it came from your electronic files. It bears Bates numbers DEFS 00115007 through 019, and it's dated April 7th, 2000. It's from Kerstin Schultz. You're not listed as a cc or, no, sorry, it's to Kerstin Schultz from Michael M. Cunnington. And it says March Management Report. BY MR. SAHAM: Q. Do you know who Michael M. Cunnington is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	guy at Searle? A. Where is Al Heller cc'd on this? Q. He's, like, the sixth down. A. Oh, yes. Correct, yes. Q. And what about Joe Papa, was he a senior commercial guy? A. I I don't know what his role was. I know he was on commercial and he was at Searle. Q. And then looking again, I just want to turn you to the last three Bates numbers, 011. Up at the top, there's a bullet point. A. I'm on that page. Q. The top bullet point says, Results from Celebrex long-term safety study are under analysis. Communication of results and commercialization plans will be finalized with senior management on April 7th. Do you recall being involved in that process of the finalization of the communication of the results of CLASS? A. I'm I'm not sure what you mean by the



		1	
	73		75
1	don't know what this is referring to. I don't know	1	A. I don't recall if there was a contract
2	what they're even referring to here.	2	about payment or not.
3	Q. But at some point in April, Pharmacia and	3	Q. Okay. You just didn't deal with that
4	Pfizer started communicating about the results of	4	part of it?
5	CLASS publicly; is that correct?	5	A. I I don't recall dealing with that
6	MR. HOFF: Objection to form.	6	part of it.
7	BY THE WITNESS:	7	Q. Do do you think he was working on the
8	A. Could you repeat the question?	8	project for free?
9	BY MR. SAHAM:	9	A. I I can't recall. I don't know how
10	Q. Some point in April of 2000, Pharmacia	10	that worked.
11	and Pfizer started publicly communicating about the	11	Q. Okay. And when he was speaking at ACP,
12	results of the CLASS trial; is that	12	was he asked to do that by Pharmacia as part of his
13	MR. HOFF: Objection	13	role as a consultant?
14	BY MR. SAHAM:	14	A. I'd have to remember how it transpired.
15	Q fair to say?	15	I I don't recall exactly how the the
16	MR. HOFF: Objection to form.	16	invitation was made and how it how it came out.
17	BY THE WITNESS:	17	Q. And earlier, we talked about, you know,
18	 A. In April, Fred Silverstein gave a 	18	various presentations you had made to Pfizer people
19	presentation at ACP, and I think it was on	19	about CLASS results?
20	April 15th. That's all I know about the first	20	A. Well, I know we had a conversation about
21	external presentation of the CLASS data, meaning,	21	it, but I believe I said I don't remember giving
22	external presentation to the public.	22	presentations to Pfizer people.
23	MR. SAHAM: Okay. We need to change the tape	23	Q. Oh, you don't remember any presentations
24	now, so we'll take a quick	24	to Pfizer?
	74		76
1	74 THE WITNESS: Okay.	1	76 A. I don't re no, I don't remember
1 2	· -	1 2	·
	THE WITNESS: Okay.		A. I don't re no, I don't remember
2	THE WITNESS: Okay. MR. SAHAM: break.	2	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way.
2	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure.	2 3	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay.
2 3 4	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record	2 3 4	 A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them.
2 3 4 5	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m.	2 3 4 5	 A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been
2 3 4 5 6	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m. This is the end of Tape No. 1. (WHEREUPON, a short recess was had.)	2 3 4 5 6 7 8	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been marked as Plaintiffs' Exhibit 162 previously.
2 3 4 5 6 7 8	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m. This is the end of Tape No. 1. (WHEREUPON, a short recess was had.) THE VIDEOGRAPHER: Going back on the video	2 3 4 5 6 7 8	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been marked as Plaintiffs' Exhibit 162 previously. Could you please take a look at
2 3 4 5 6 7 8	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m. This is the end of Tape No. 1. (WHEREUPON, a short recess was had.) THE VIDEOGRAPHER: Going back on the video record at 10:42 a.m.	2 3 4 5 6 7 8 9	 A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been marked as Plaintiffs' Exhibit 162 previously. Could you please take a look at Plaintiffs' Exhibit 162?
2 3 4 5 6 7 8 9 10	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m. This is the end of Tape No. 1. (WHEREUPON, a short recess was had.) THE VIDEOGRAPHER: Going back on the video record at 10:42 a.m. This is two beginning of Tape No. 2.	2 3 4 5 6 7 8 9 10	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been marked as Plaintiffs' Exhibit 162 previously. Could you please take a look at Plaintiffs' Exhibit 162? MR. SAHAM: And for the record, Exhibit 162
2 3 4 5 6 7 8 9 10 11	THE WITNESS: Okay. MR. SAHAM: break. THE WITNESS: Sure. THE VIDEOGRAPHER: Going off the video record at 10:27 a.m. This is the end of Tape No. 1. (WHEREUPON, a short recess was had.) THE VIDEOGRAPHER: Going back on the video record at 10:42 a.m. This is two beginning of Tape No. 2. BY MR. SAHAM:	2 3 4 5 6 7 8 9 10 11	A. I don't re no, I don't remember presenting to Pfizer. I don't remember either way. Q. Okay. A. I'm not saying I didn't. I know there there were these meetings, but I don't remember presenting at them. Q. Okay. I'm going to show you what's been marked as Plaintiffs' Exhibit 162 previously. Could you please take a look at Plaintiffs' Exhibit 162? MR. SAHAM: And for the record, Exhibit 162 bears Bates numbers DEFS 00170973 through 976. And
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·	nis do these minutes indicate
	ented a summary analysis on April 6th,
3 believe you didn't receive this e-mail in the 3 2000?	
·	, "Summary analysis presented
5 A. I mean, it says it was addressed to me. 5 (Geis)."	,,,
	know that that means I presented.
7 me. 7 I don't know w	-
	But you you recall making
	internally, you just don't recall
	nade one on April 6th to this ops
the Videoconference Minutes from April 6, 2000, 11 committee?	add one one printer to the ope
12 Searle Pfizer Operations Committee. 12 A. That's	correct.
	But you're not disputing that you
	you just don't know one way or the
15 Q. And you does this refresh your 15 other?	you just us mis one may or mis
	at yeah, I don't know I don't
17 committee? 17 remember eith	-
	Thank you, sir.
<u> </u>	o show you what I'm marking as
20 A. Dr. Feczko was an employee at Pfizer. 20 Plaintiffs' Exhit	
	EREUPON, a certain document was
· ·	ked Plaintiffs' Deposition
	bit No. 252, for identification,
	f 12/10/2010.)
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1 A. I don't know. 1 BY MR. SAHA	AM:
	you please take a look at that
meetings where the CLASS results were discussed with 3 document.	you prodoc take a rook at mat
	.M: And for the record, Plaintiffs'
	ears Bates numbers DEFS 00392275
6 Q. Well, first 6 through 317.	And it's a one-page e-mail that
_	of slides. The middle e-mail on the
	om George Geis to Leland Loose,
9 any meetings where he the results were discussed 9 dated April 17	=
	en above that is an e-mail chain
	oose to Ethan Weiner and others that
12 Q. Okay. 12 says, "These a	are the final slides shown at the ACP
13 A. No, I don't. 13 meeting."	
14 Q. And do you know who Montwill is, 14 And the	en starting at page 2 of the
	ere's a set of 42 slides.
16 A. Yeah. I believe I think his name was 16 And I'd	ask you generally if you could
	y this e-mail and presentation for
employee at Searle on the commercial side. 18 me?	·
	rect that these are the slides
	Silverstein at his ACP presentation
21 Minutes, under 3, it says Priority Issues Update, 21 on April 15th, 2	· · · · · · · · · · · · · · · · · · ·
· ·	say I recall specifically that
	he slides. And by the e-mail, it
	n as such, but I can't say I remember



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every slide in here. And some of them have -- and it may have been the way they were printed -- errors on them. So I can't imagine a slide that looked like this he presented, so...

- Q. But you wrote to Dr. Loose on April 17, 2000, "Attached are the slides"?
- A. I -- I agree that's what it says, but I don't recall writing this e-mail.
- Q. But you don't dispute that you wrote to Leland Loose on April 17, 2000, "I think it went quite well on Saturday night. Attached are the slides"?
- A. As I said, I don't recall this e-mail. I know what the e-mail says, and it did come -come -- come from me, but I'm just saying I don't remember writing it.
- Q. And you say it came from -- but you agree with me it came from you, correct?
- A. Yes.

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- Q. And you sent it in the capacity as an employee at Pharmacia to Dr. Loose in his capacity as an employee at Pfizer on or about April 17, 2000?
- A. That's what this looks like, yes.
- And then Dr. Loose forwards the e-mail to

83

A. I reviewed, just sort of in general, my 2 understanding and my -- my recollection of the press release process, if I had seen the press release or

I subsequently reached out to members of the PR team from Searle, specifically Sally Benjamin Young and Claudia Kovitz, and asked some questions of them to prepare myself.

- Q. Okay. And speaking of the April 17th press release, who drafted that press release? Do you know?
 - A. I don't know.
- Q. Okay. Who participated in the approval process for that press release?
 - A. I don't know. You mean specific names? I don't know.
 - Q. Okay. But you saw it in advance of it -it going out, correct?
 - A. No, I don't recall having seen it.
- 20 Q. It was e-mailed to you, correct?
 - A. I don't know that.
 - Q. Do you recall, in your preparations for the 30(b)(6) deposition, reviewing draft e-mails from April 7th, April 11th and April 14th of 2000

82

- Dr. Weiner, Dr. Wahba and others and says, "These 2 are the final slides shown at the ACP meeting," 3 correct?
 - A. That's what the e-mail says, yes.
 - Q. Okay. I want to show you -- well, before I do that, do you recall or -- or do -- do you understand that you've been designated by the defendants, or specifically the defendant Pharmacia, as what's called a 30(b)(6) witness?
 - A. Yes, I do.
 - Q. And one of the topics that you've been designated to testify about on behalf of Pharmacia is the press release that was issued by Pharmacia on April 17th, 2000; is that correct?
 - A. Yes.
 - Q. Okay. So we're going to talk about that now. And you understand that your testimony in this regard is being offered both in a personal capacity as well as a representative of Pharmacia, correct?
 - A. Yes, I understand that.
 - Q. Okay. And did you do certain things to prepare for that testimony?
 - A. Yes.
 - Okay. And what did you do?

84

- that contained drafts of the press release? 1
 - A. No, I don't.
 - Q. Okay. So you didn't do that in preparing for today's deposition?
 - A. I don't recall having done it.
 - Q. Okay. Do you under- -- do you recall there being, at Searle, something called the regulatory affairs committee?
 - A. If that refers to RAC, yes.
 - Q. And what is RAC?
 - A. So my understanding is, RAC was a team with representatives from a variety of functional areas who re- -- who reviewed information such as advertisement, press releases, things that went out to the public, and they approved them to be used.
 - Q. And did they do so -- and they -- strike that.

Did they do that as employees of Pharmacia or Searle?

- A. Well -- so RAC was specific, in my recollection, for Searle. That was the terminology for Searle. And they did that on behalf of Searle, is my understanding.
 - Q. And do you know who was on that committee



1 or on the RAC?

- A. Some of the members that I can tell you that I know. I don't know all of them.
 - Q. Tell me who you recall.
- A. Sure. Catherine Wertjes, Winifred
 Begley, Jerry Prahl, those are the ones that I
 remember by name.
 - Q. Okay. I want to show you what's previously been marked in this case as Plaintiffs' Exhibit 86.

Could you please take a look at Plaintiffs' Exhibit 86, which for the record, is an April 11 e-mail chain which attaches a fax sheet and a draft of the April 17th, 2000 press release. It bears Bates numbers DEFS 01240062 through 75.

And I'd point your attention specifically to the middle e-mail on the first page from Diana E. Smith, and it cc's Dr. Philip Needleman and yourself, George S. Geis.

- A. Could you repeat the question?
- Q. Sure. Sure. Let me ask a different question, and -- and we'll -- we'll -- we're going to look at this document in just a second.
 - A. Sure.

- Q. But you understand that you're testifying on behalf of Pharmacia regarding, quote, The issuance of the press release, including, but not limited to, the process for and individuals involved with drafting, editing and approving the press release, correct?
 - A. Yes.
- Q. You're designated to testify on that topic for Pharmacia?
 - A. I understand that, yes.
- Q. Okay. And my question is, before we get to this document, who at Pharmacia, starting with the most senior person, approved the issuance of this press release?
- A. That, I don't know. This specific press release, I don't know.

Can I give you context about --

- Q. We'll get to that in a second.
- A. Okay.
 - Q. But my question is, you understand that you were designated to testify on behalf of
- 22 Pharmacia --
- A. Sure.
- Q. -- who approved this, and your testimony

here today is, you don't know, correct?

A. What I'm -- what I'm saying is that the process, as I understood it, was that -- so I -- I have to put it in the context of what was going on at the time.

Q. Go -- go ahead, sir.

A. So there was Searle who had RAC. We then had a codevelopment, comarketing agreement with Pfizer.

The process was, as described to me by Ms. Young and Kovitz, was that they were -- they were mirror imagines. They had representatives from the various disciplines on Pfizer and Searle for press releases and things that went public through the commercial side. That was in place, but we were right in the merger with Pharmacia. So things began to move.

Both Ms. Young and Ms. Kovitz said, at the time, it wasn't actually precise anymore. That was their best recollection, because we were in the middle of the merger.

So the -- the precise process and steps related to this particular press release, they could not say exactly how it went.

But in -- but having said that, in principle, there was -- there was -- there would have been an agreement between the Searle representatives and the Pfizer representatives and possibly Pharmacia involved.

Q. Okay. So let's break that down.
At Searle, the RAC, or regulatory affairs committee, approved the press release, correct?

- A. They would have, yes.
- Q. And --
- A. That would be a fair --
- Q. And you don't know everybody that was on the RAC?
 - A. Correct, I don't.
- Q. Do you know -- other than the people who you named who were on the RAC, do you know whether any other senior Searle individuals approved the press release?
 - A. No, I don't.
- Q. Okay. Do you know whether Dr. Needleman approved the press release?
- A. I don't know.
- Q. Do you know whether Mr. Dick De Schutter approved the press release?



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1	A. I don't know.	1	asked them questions. But they did not talk about a
2	Q. Okay. And what have you done to	2	written process.
3	determine whether either De Schutter or Needleman or	3	Q. Okay. Did you talk to any lawyers about
4	other Searle senior executives approved the press	4	it, like people that might have been in the legal
5	release?	5	department at Pharmacia that may have dealt with the
6	A. When I spoke with as I said, when I	6	protocol for how authorization of press release
7	spoke with Ms. Young and Ms. Kovitz, I asked them	7	occurred in this period?
8	who would have approved it. They did not remember	8	A. I did not speak with the legal department
9	specifically who.	9	at Searle about this.
10	Q. Did you ask Mr. Needleman if he approved	10	Q. All right. Now, going to Pharmacia, now,
11	it?	11	separate from Searle and I I understand you
12	A. No, I did not.	12	agree with me and I can show you the document
13	Q. Did you ask Mr. De Schutter if he	13	that as of April 17th, Searle was part of Pharmacia
14	approved it?	14	because the merger closed on March 31st, 2000.
15	A. I did not.	15	Do you do you
16	Q. Did you ask any other senior who	16	A. Say that again.
17	people who were, at this time, senior Searle	17	Q. Do you agree with that?
18	executives whether they approved it?	18	A. Could you repeat that?
19	A. No, I did not.	19	Q. The merger closed on March 31st, 2000; is
20	Q. And why why didn't you do that, I	20	that correct? And I can show you a document if you
21	guess?	21	don't know from your own knowledge.
22	A. Well, I went to the people who were	22	A. I don't know from my my own knowledge
23	responsible for press releases based on my	23	exactly the date the merger legally existed.
24	understanding of what went on at Searle. So Sally	24	Q. Okay. I want to show you what I'm
		-	
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1		1	
1 2	Benjamin Young was the head of PR who would have	1 2	marking as Plaintiffs' Exhibit 253.
2	Benjamin Young was the head of PR who would have knowledge of the whole RAC process.		marking as Plaintiffs' Exhibit 253. (WHEREUPON, a certain document was
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Benjamin Young was the head of PR who would have knowledge of the whole RAC process. Q. Do you know whether there was MR. HOFF: Wait, wait. MR. SAHAM: Oh, I'm sorry. MR. HOFF: Did you finish? BY MR. SAHAM: Q. I didn't mean to interrupt. A. So I went to the person who understood the process, in my mind, the best. And it was through her department that much of these activities took place. So I went to what I thought was the knowledgeable and responsible source. Q. Do you know whether there's a written protocol or was a written protocol at Searle that described the process by which a press release would be approved, of this type? A. I do not know if there was a a written process. Q. And as a as a 30(b)(6) deponent, you didn't attempt to determine or review documents to determine whether there's a written protocol?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	marking as Plaintiffs' Exhibit 253. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 253, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. And Exhibit 253 is what's referred to as an 8-K, a form 8-K that was filed with the SEC. And the second page of the document at the top indicates that "On March 31st, 2000, MP Sub, Incorporated, a Delaware corporation ('Merger Sub') wholly owned by Pharmacia Corporation (formerly Monsanto Company), a Delaware corporation ('Registrant'), merged ('the Merger') with and into Pharmacia & Upjohn, Inc., a Delaware corporation (Pharmacia & Upjohn, pursuant to an Agreement and Plan of Merger, dated as of December 19, 1999, as amended ('the Merger Agreement')." And hopefully, you'll accept my representation that as per this filing with the SEC, that the merger was finalized on March 31st of 2000, for the purposes of my next set of questions?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Benjamin Young was the head of PR who would have knowledge of the whole RAC process. Q. Do you know whether there was MR. HOFF: Wait, wait. MR. SAHAM: Oh, I'm sorry. MR. HOFF: Did you finish? BY MR. SAHAM: Q. I didn't mean to interrupt. A. So I went to the person who understood the process, in my mind, the best. And it was through her department that much of these activities took place. So I went to what I thought was the knowledgeable and responsible source. Q. Do you know whether there's a written protocol or was a written protocol at Searle that described the process by which a press release would be approved, of this type? A. I do not know if there was a a written process. Q. And as a as a 30(b)(6) deponent, you didn't attempt to determine or review documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	marking as Plaintiffs' Exhibit 253. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 253, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. And Exhibit 253 is what's referred to as an 8-K, a form 8-K that was filed with the SEC. And the second page of the document at the top indicates that "On March 31st, 2000, MP Sub, Incorporated, a Delaware corporation ('Merger Sub') wholly owned by Pharmacia Corporation (formerly Monsanto Company), a Delaware corporation ('Registrant'), merged ('the Merger') with and into Pharmacia & Upjohn, Inc., a Delaware corporation (Pharmacia & Upjohn), pursuant to an Agreement and Plan of Merger, dated as of December 19, 1999, as amended ('the Merger Agreement')." And hopefully, you'll accept my representation that as per this filing with the SEC, that the merger was finalized on March 31st of 2000,



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93 it's hard to remember dates. 1 2 It occurred on March 31st, 2000, the two 3 companies became one, Searle and Pharmacia? 4 A. So based on this document, yes, I would 5 agree that's what this document says. 6 Q. Okay. So as of -- assuming that document 7 is accurate -- and I know you're not a lawyer or 8 work for the SEC, but assuming the merger closed on 9 March 31st, when this press release was being 10 reviewed between April 7th and then went out on 11 April 17th, it was one -- Pharmacia and Searle were

> A. I just want to get the dates of where the -- what we're talking about.

Q. Right. This document -- and we're going to look at other versions of the press release. The one you're looking at, Exhibit 86, is dated -- the draft is dated April 11, 2000 --

19 A. Okav.

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20 Q. -- 11 days after --

one company, correct?

21 A. Okay.

Q. -- the merger.

23 A. I agree that April 11 is after

24 March 31st. BY THE WITNESS:

2 A. Could you please repeat it? I'm sorry, I 3 just want to get this right.

95

4 BY MR. SAHAM:

> Q. Yeah. Who at Pharmacia -- we've talked about the Searle RAC and --

A. Right.

Q. -- people like that.

Α. Right.

Other than those people who you named already, who -- as a 30(b)(6) witness or with your own knowledge, who at Pharmacia, senior executives, to your knowledge, approved that press release?

A. I don't --

MR. HOFF: Objection to form.

BY THE WITNESS: 16

A. I don't know.

18 BY MR. SAHAM:

> Q. Okay. Do you know if Pharmacia had some sort of similar RAC entity that approved the press release?

22 A. I don't know.

23 Q. Okay. And what did you do to attempt to find that out?

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Q. Right. Okay. So for the purposes of 1 2 these questions, I'm representing to you, if -- if 3 that is accurate that the merger closed on 4 March 31st -- which I know you're not an expert on 5 that -- on April 11th, Pharmacia and Searle are one, 6 correct?

A. Legally speaking, I would agree.

Q. Okay. So --

MR. HOFF: It's actually Pharmacia & Upjohn and Monsanto are one.

MR. SAHAM: Great. Great.

12 BY MR. SAHAM:

> Q. So now my next set of questions -- you know, I asked you about, you know, what you did to figure out who at Searle approved the press release.

Who, starting with the most-senior people at Pharmacia, to your knowledge as the 30(b)(6) deponent, approved the press release at Pharmacia other than the Searle people who you referenced who were legally part of Pharmacia at this point? But I'm getting at people who were, you know, for -- for lack of a better word, they were -- they were at Pharmacia before the two companies joined.

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A. So with counsel, there was an outreach to a couple people who were a part of the Searle organization and the Pharmacia organization. There was a -- a woman named Diana Morales Smith who was in PR from Searle. There was an attempt made to reach out to her to ask her questions and she did not respond.

There was a gentleman named Craig Tooman who is -- my understanding -- from Pharmacia, who was in PR. And I don't -- again, I don't know exactly if there was a RAC committee or whatever, but he -- his -- he was involved in PR and in press releases.

Through Dr. Ando, there was an outreach to Mr. Tooman to ask questions, and Mr. Tooman did not respond. So there was an outreach to a couple people who -- who, I think, were intimately involved. And I shouldn't say that, but I think, and they did not respond.

Q. Would you agree with me -- and this is a very simple question -- that the company, Pharmacia, issued this press release? Is that an accurate statement?

A. The company did issue this.



MR. HOFF: Objection to form.

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1	Q. And Pfizer jointly issued this?	1	You're listed as the cc, George S. Geis on the first
2	A. My understanding of the process is that,	2	page.
3	yes, Pharmacia excuse me. Repeat it.	3	A. I see that. I just am trying to see if
4	Are you talking about Pharmacia or	4	it makes it clear that the press release was
5	Pfizer?	5	attached to the e-mail, because I don't recognize
6	Q. Two different questions.	6	the e-mail or the press release. But this e-mail
7	I think we just established Pharmacia	7	was sent to me. I'm just trying to see if it says
8	issued the April 17th press release, correct?	8	the press release is attached.
9	A. Right.	9	Q. Well, it say, "Thank you for the
10	Q. You would agree with me that's accurate?	10	considerable amount of time you spent this morning
11	A. Yes.	11	reviewing the draft CLASS media materials."
12	Q. And the next question, totally separate	12	A. Well, that's
13	question, did Pfizer coissue the press release with	13	Q. "We made a lot of headway and we were
14	Pharmacia?	14	able to refine the materials even further this
15	A. I don't know that.	15	afternoon in a Searle-only RAC session."
16	Q. Okay.	16	Then there's three documents attached in
17	A. I don't know. Because of the as as	17	Word, the first of which is the Fact Sheet,
18	Ms. Young and Kovitz described, at that time, there	18	Celecoxib Long-Term Arthritis Safety Study, which
19	was this period of change going on where they could	19	bears a consecutive Bates number to the e-mail, and
20	not describe exactly what happened and who was at	20	that is four pages.
21	the table for this particular press release.	21	And then starting at the fifth page,
22	Q. And you are not designated to testify	22	which is last three Bates number 067, there's a
23	here today on behalf of Pfizer regarding who issued	23	Draft 4/11/00 of the April 17th, 2000 press release,
24	the press release, correct?	24	and that is one, two, three four pages long.
			and the control of th
	9.8		100
	98		100
1	A. Not that I know of.	1	And then there's another attachment of
2	A. Not that I know of.Q. Okay. Somebody else is going to be	2	And then there's another attachment of the entitled Fact Sheet after that, which would
2	A. Not that I know of.Q. Okay. Somebody else is going to be presumably well, you don't know that	2 3	And then there's another attachment of the entitled Fact Sheet after that, which would correspond with the three word icons on the first
2 3 4	 A. Not that I know of. Q. Okay. Somebody else is going to be presumably well, you don't know that A. I don't know. 	2 3 4	And then there's another attachment of the entitled Fact Sheet after that, which would correspond with the three word icons on the first page of the e-mail, correct?
2 3 4 5	 A. Not that I know of. Q. Okay. Somebody else is going to be presumably well, you don't know that A. I don't know. Q but you're you're not designated 	2 3 4 5	And then there's another attachment of the entitled Fact Sheet after that, which would correspond with the three word icons on the first page of the e-mail, correct? MR. HOFF: Is there a question somewhere?
2 3 4 5 6	 A. Not that I know of. Q. Okay. Somebody else is going to be presumably well, you don't know that A. I don't know. Q but you're you're not designated for that point? 	2 3 4 5 6	And then there's another attachment of the entitled Fact Sheet after that, which would correspond with the three word icons on the first page of the e-mail, correct? MR. HOFF: Is there a question somewhere? BY MR. SAHAM:
2 3 4 5 6 7	 A. Not that I know of. Q. Okay. Somebody else is going to be presumably well, you don't know that A. I don't know. Q but you're you're not designated for that point? A. I don't believe so. It's my 	2 3 4 5 6 7	And then there's another attachment of the entitled Fact Sheet after that, which would correspond with the three word icons on the first page of the e-mail, correct? MR. HOFF: Is there a question somewhere? BY MR. SAHAM: Q. Well, is it correct that there's three
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And I'd refer you to the middle e-mail.

24

Toll Free: 800.300.1214 Facsimile: 619.239.4117

release, the top left-hand corner, it says

	101		103
1	CLASSracrel.	1	but I'm not sure whether because at the time,
2	Q. So you would agree with me that you	2	again, we have Pfizer and now new people from
3	received this draft electronically on or about	3	Pharmacia. I can't recall
4	April 11, 2000?	4	Q. And here, next to
5	A. I don't recall having received it, but	5	A which organization.
6	the e-mail says I was copied.	6	Q. I'm sorry, next to his name, it says
7	Q. And it would have been e-mailed to you in	7	Non-Monsanto/Off-Site.
8	the ordinary scope of business at corporation	8	So he didn't work for Searle, right?
9	Pharmacia, correct?	9	A. The correct. I understand that. I
10	A. I don't remember it either way, but it	10	just
11	appears it was sent to me.	11	Q. You just can't remember whether he worked
12	Q. But it wasn't sent to you in some	12	for Pfizer or or Pharmacia?
13	personal capacity? You were working for Pharmacia	13	A. Correct.
14	at the time and so were these other individuals?	14	Q. And I represent to you he worked for
15	A. I was. I can't	15	not that that's worth anything, but he did work for
16	Q. Okay.	16	Pfizer at the time.
17	A you know	17	A. Okay.
18	Q. Diana Smith	18	Q. Do you know who Irene Condon is?
19	A I can't answer for anybody else.	19	A. I do not.
20	Q. Do you know who Diana Smith was who sent	20	Q. Celeste Torello?
21	that e-mail?	21	A. I do not know who that is.
22	A. Diana Smith is the woman I referred to	22	Q. Phyllis Christesen?
23	earlier. Diana I believe it was Morales Smith,	23	A. I remember Phyllis Christesen as an
24	and at the as I remember her, she was an employee	24	employee of Pfizer.
			- 1 - 2
	102		104
1		1	·
1 2	of of Searle in the PR department.	1 2	Q. Okay. So at least one Pfizer employee
2	of of Searle in the PR department. Q. And there are several people that it's	2	Q. Okay. So at least one Pfizer employee you remember received this, correct, or was
2	of of Searle in the PR department. Q. And there are several people that it's addressed to in the To line, the e-mail there,	2 3	Q. Okay. So at least one Pfizer employee you remember received this, correct, or was A. Well, I I remember Phyllis Christesen
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	105		107
1	these people were as part of your 30(b)(6)	1	Papa and others.
2	preparations?	2	And the subject line says RAC-Approved
3	A. No. I did not reach out to these people	3	CLASS Press Materials. And it goes on to state,
4	and had no reason to because I don't know them.	4	Attached are the final RAC-approved CLASS press
5	Q. Right. No, but I'm saying, did you	5	materials. Pending any other final Pharmacia
6	attempt to figure out who they were so you could	6	sign-offs, these materials will be distributed to
7	testify on behalf of Pharmacia about who approved	7	the media on Monday morning followed by a news
8	the press release?	8	teleconference with Drs. Geis, Silverstein, Simon
9	A. I don't recall having seen this list of	9	and Whelton at 10:30 a.m. Eastern time.
10	people.	10	Now, this document indicates, as you just
11	Q. And I'm just asking you what	11	testified earlier, that the press release was
12	A. Yeah, I don't recall having seen this	12	proved approved by the RAC, correct?
13	list of people, so I wouldn't have even made the	13	A. That's what this says.
14	connection.	14	Q. And then it also refers to pending any
15	Q. And then the first cc listed here as	15	final Pharmacia sign-offs.
16	having received this e-mail is Dr. Needleman,	16	What did you do to determine what final
17	correct?	17	Pharmacia sign-offs occurred with respect to the
18	A. His name is on the cc list, yes.	18	April 17th press release?
19	Q. Okay. So presumably it was sent to him,	19	A. As I stated earlier, I reached out to
20	as well, correct?	20	Ms. Kovitz and Ms. Young to de to describe the
21	A. I don't know either way. His name	21	general process of approvals at Searle and at the
22	appears as the cc	22	time at this time of the merger and with the
22	• •	4 4	
22	O Okay	22	presence of Pfizer
23 24	Q. Okay.	23	presence of Pfizer. We talked specifically about the press
23 24	A on the cc list.	23 24	We talked specifically about the press
			·
	A on the cc list.		We talked specifically about the press 108 release around this time. There was outreach to
24	A on the cc list.	24	We talked specifically about the press
1	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well?	1	We talked specifically about the press 108 release around this time. There was outreach to
24 1 2	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list.	1 2	We talked specifically about the press 108 release around this time. There was outreach to Ms. Smith and Mr. Tooman, who did not respond. So
1 2 3	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm	1 2 3	We talked specifically about the press 108 release around this time. There was outreach to Ms. Smith and Mr. Tooman, who did not respond. So that's what I did to get an understanding of this.
1 2 3 4	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254.	1 2 3 4	We talked specifically about the press 108 release around this time. There was outreach to Ms. Smith and Mr. Tooman, who did not respond. So that's what I did to get an understanding of this. Q. And this document indi indicates it
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1 2 3 4 5 6 7 8 9 10 11	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 254, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at Plaintiffs' Exhibit 254.	1 2 3 4 5 6 7 8 9 10	We talked specifically about the press 108 release around this time. There was outreach to Ms. Smith and Mr. Tooman, who did not respond. So that's what I did to get an understanding of this. Q. And this document indi indicates it was sent, the press re the draft of the press release, after it was approved by RAC, was sent to Dr. Needleman and Mr. De Schutter and Mr. Heller, correct? A. This does say that it's the final RAC-approved CLASS press materials. Q. And it was also sent to Paul G. Tooman,
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 254, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at Plaintiffs' Exhibit 254. MR. SAHAM: And for the record, Plaintiffs' Exhibit 254 is, again, a one-page e-mail chain dated April 4 April 13th and April 14th, 2000, and it attaches drafts of the same three documents we were	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Tooman, T-o-o-m-a-n, which is an individual referred to earlier. A. I'm sorry, I don't see
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 254, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at Plaintiffs' Exhibit 254. MR. SAHAM: And for the record, Plaintiffs' Exhibit 254 is, again, a one-page e-mail chain dated April 4 April 13th and April 14th, 2000, and it attaches drafts of the same three documents we were referring to in the April 11th draft or the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	release around this time. There was outreach to Ms. Smith and Mr. Tooman, who did not respond. So that's what I did to get an understanding of this. Q. And this document indi indicates it was sent, the press re the draft of the press release, after it was approved by RAC, was sent to Dr. Needleman and Mr. De Schutter and Mr. Heller, correct? A. This does say that it's the final RAC-approved CLASS press materials. Q. And it was also sent to Paul G. Tooman, or Tooman, T-o-o-m-a-n or, I'm sorry, Craig Tooman, T-o-o-m-a-n, which is an individual referred to earlier. A. I'm sorry, I don't see Q. If you drop down a few lines, it says
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 254, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at Plaintiffs' Exhibit 254. MR. SAHAM: And for the record, Plaintiffs' Exhibit 254 is, again, a one-page e-mail chain dated April 4 April 13th and April 14th, 2000, and it attaches drafts of the same three documents we were referring to in the April 11th draft or the April 11th exhibit which I'd marked as Exhibit 86.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Toman, T-o-o-m-a-n, which is an individual referred to earlier. A. I'm sorry, I don't see Q. If you drop down a few lines, it says Tooman, Craig?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A on the cc list. 106 Q. And Dr. Friedman is cc'd, as well? A. Dr. Friedman's name is on the cc list. Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 254. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 254, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at Plaintiffs' Exhibit 254. MR. SAHAM: And for the record, Plaintiffs' Exhibit 254 is, again, a one-page e-mail chain dated April 4 April 13th and April 14th, 2000, and it attaches drafts of the same three documents we were referring to in the April 11th draft or the April 11th exhibit which I'd marked as Exhibit 86. And this document bears Bates numbers DEFS 03835807	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Tooman, T-o-o-m-a-n, which is an individual referred to earlier. A. I'm sorry, I don't see Q. If you drop down a few lines, it says Tooman, Craig? A. Yes, it does.

23

24



of the first page, and it's dated April 13th, 2000,

to Philip Needleman and Richard U. De Schutter, D-e,

space, S-c-h-u-t-t-e-r, and also Alan Heller, Joseph

22

23

Toll Free: 800.300.1214 Facsimile: 619.239.4117

they approved the issuance of this press release?

Q. And could you describe what the purpose

A. No, I did not.

of the RAC is?

A. My understanding is that is -- my understanding of the RAC at Searle was to look at materials related to commercial -- commercial that were going to the public, including press releases, and that they were acceptable from a variety of perspectives, such as legal, regulatory, et cetera. And that then they would approve it, and then the people in the organization could use them -- those materials.

Q. Okay. I want to show you what has been previously marked as Plaintiffs' Exhibit 240.

Could you please take a look at Plaintiffs' Exhibit 240.

MR. SAHAM: And for the record, Plaintiffs' Exhibit 240 is a one-page e-mail chain from Diana E. Smith that cc's Dr. Needleman, Dr. Friedman and yourself. It's dated April 7, 2000, and the entire document, it attaches, again, the same three, the two fact sheets and the press release, but this version is dated April 7, 2000, and it bears the Bates numbers DEFS 00589404 through 412. BY MR. SAHAM:

Q. And I'd ask you, do you agree that you

- A. This says he was copied, yes.
- 2 Q. And the same with Dr. Friedman and
 - Mr. Papa?
 - A. This says that Dr. Friedman and Mr. Papa were copied.
 - Q. And Mr. Heller, as well?
 - A. That's what -- it does say that
 - Mr. Heller was cc'd on this.
 - Q. I want to show you what I'm marking as Plaintiffs' Exhibit 255.

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 255, for identification, as of 12/10/2010.)

BY MR. SAHAM:

Q. And I'd ask you if you recognize that press release? This -- this is a different press release. This is the May 23, 2000 San Diego Digestive Disease Week press release. It's entitled Findings From Celebrex Safety Study Show Traditional NSAID Comparators Can Cause Serious GI Complications Within First Days of Treatment.

And I -- and I just ask you if you recognize that?

would have -- that this e-mail would have been sent to you with these attachments as a cc on or about April 7, 2000?

A. I see what's said here. The problem I have is, the icon at the bottom that references an S RAC rel.doc. Then you find what appears to be a press release, does not have the same notation. So I do not know if this is the press release that -- that's being referred to in the icon.

Q. But you don't --

A. I -- I see a press release, yes, I see it. And I see an icon that says something about a press release, but I'm not sure I would say they're accurately connected.

Q. But you don't dispute that you were sent at least some version of the April 17th press release via e-mail on or about April 7, 2000?

A. In the text, it says, specifically, you will find the draft press release.

So based on that, I would agree that the -- a press release was attached to the e-mail I was cc'd on.

Q. And you also agree that it was sent to Dr. Needleman, a press release, as well?

- A. I -- I recently saw this, yes.
 - Q. Okay. And it --
 - A. But recently.

Q. Does it appear to be a press release that was issued regarding CLASS in conjunction with the disease -- Digestive Disease Week in San Diego about a month after the April 17th press release?

A. It says -- in the first paragraph, it refers to data presented during Digestive Disease Week, so it appears that this is referencing what was presented there.

Q. Okay. Can you turn back to Exhibit 254, which is the April 14th RAC-approved press release.

And at the bottom -- I read this earlier but I wanted to ask you a few questions about it -- it says -- and I'm just going to read it again, just to refer you back to it.

It says, "Pending any other final Pharmacia sign-offs, these materials will be distributed to the media on Monday morning, followed by a news" con- -- "teleconference with Drs. Geis, Silverstein, Simon and Whelton at 10:30 a.m."

Does that refresh your recollection that you may have participated in a call with the media



	113		115
1	on or about April 17, 2000, regarding the CLASS	1	A. It doesn't say that, specifically.
2	results?	2	Q. Well, you were designated as the
3	A. No, it doesn't.	3	representative
4	Q. But you don't dispute that you did?	4	A. Right.
5	A. I don't recall it.	5	Q of Pharmacia
6	Q. Okay. You just don't remember one way or	6	A. Right.
7	the other?	7	Q regarding the April 17 press release.
8	A. I don't remember one way or another	8	So presumably, you can identify whether or not
9	Q. You remember talking about CLASS	9	A. Yeah.
10	publicly, but you just don't remember the dates that	10	Q this is it.
11	you did so?	11	A. This looks like it is like the press
12	MR. HOFF: Objection to form.	12	release I understand had been released. But, you
13	BY THE WITNESS:	13	know, as you saw before, there were drafts of it,
14	A. You have to be more specific as to, do I	14	and I don't see anything here that says it's stamped
15	remember do I remember talking publicly about	15	final or anything like that.
16	CLASS when? When are you speaking of?	16	So I'm saying, it looks like it is, but I
17	BY MR. SAHAM:	17	can't guarantee
18	Q. I'm saying, you remember, generally,	18	Q. Did you review
19	doing it, you just don't remember the dates? You	19	A to you that I know that this thing you
20	remember, at some point, at least, you talked to	20	handed me was the final that was released that day.
21	reporters about CLASS, you just don't know whether	21	Q. Well
22	you did it on April 17th or not?	22	A. That's all I'm saying.
23	MR. HOFF: Objection to form.	23	Q in your preparations as the, you know,
24	BY THE WITNESS:	24	corporate representative of Pharmacia
	114		116
1	114 A. I talked I spoke to reporters at some	1	116 MR. HOFF: Can I save some time
1 2		1 2	
	A. I talked I spoke to reporters at some	1	MR. HOFF: Can I save some time
2	A. I talked I spoke to reporters at some point about CLASS. I don't recall doing so this	2	MR. HOFF: Can I save some time BY MR. SAHAM:
2	A. I talked I spoke to reporters at some point about CLASS. I don't recall doing so this early after we had the results from CLASS. BY MR. SAHAM: Q. You just don't remember doing it?	2 3	MR. HOFF: Can I save some time BY MR. SAHAM: Q to testify
2 3 4	A. I talked I spoke to reporters at some point about CLASS. I don't recall doing so this early after we had the results from CLASS. BY MR. SAHAM: Q. You just don't remember doing it? A. I don't I don't remember doing it	2 3 4	MR. HOFF: Can I save some time BY MR. SAHAM: Q to testify MR. HOFF: and stipulate that this is the press release? MR. SAHAM: Yeah. Do you stipulate, then?
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specifically to the second page of the document, the third paragraph, the first sentence, and I'll read it into the record.

It states, "The study, funded by Searle and Pfizer, Inc., found that Celebrex patients experienced significantly fewer symptomatic GI ulcers and ulcer complications compared with Ibuprofen or Diclofenac."

That statement is not accurate with respect to Diclofenac, correct?

MR. HOFF: Objection to form.

12 BY THE WITNESS:

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A. I read this -- I read this sentence to indicate that Celebrex was not different than Ibupro- -- than the analysis of Ibuprofen and Diclofenac together.

BY MR. SAHAM:

Q. You -- you read the word "were" to mean Ibuprofen and Diclofenac together? And I'm specifically referring to the sentence I just read.

A. Yeah, I -- I -- I see what you are saying. I am reading the sentence and the context of the -- of the whole document, and I read it as the -- this is Ibuprofen with Diclofenac as a

119

Silverstein presented. And -- and, again, if I 1 2 could hearken back to what I was told by Ms. --3 Ms. Young and Ms. Kovitz, in the press release, you 4 can only -- by FDA rules or laws, you can only 5 present results that have been presented publicly. 6

And the data that was presented publicly for ulcer complications and the combination of symptomatic ulcers in ulcer complications by Dr. Silverstein was the Ibuprofen plus the Diclofenac.

So that's -- that is the basis of this whole -- the data that is presented --BY MR. SAHAM:

Q. Fair --

A. -- here.

Q. Fair enough.

My question, then, we -- we presented to you earlier, which is marked as -- you know, the slides, which we marked as 252, the slides that were presented at ACP, so you could put those in front of you, as well.

You're saying that the -- the press release goes along with what was presented at ACP?

My understand- -- my understanding is the

118

1 combined group.

> Q. So you read the "or" to mean and, correct?

A. I read it to mean that this -- these two were together in -- in the analysis.

Q. Okay. This -- this document, though, Exhibit 67, which has been marked as Exhibit 67, does not disclose to the reader that there was no statistically significant comparison between Celebrex and Diclofenac for symptomatic GI ulcers and ulcer complications together; is that correct, sir?

A. Could you repeat it? I'm sorry.

Q. My question is, this document, Exhibit 67, the press release --

A. Yes.

Q. -- does not disclose to the reader that there was no statistically significant comparison in CLASS with respect to the combined endpoint of symptomatic GI ulcers and complicated ulcers together that were statistically significant? MR. WEISS: Object to the form.

23 BY THE WITNESS:

This document describes what Fred

120

press release by FDA rules can only present data that was presented in the public.

- Q. Okay. And my question to you, given that, whether you want to look at Exhibit 252 and Exhibit 67 together or just Exhibit 67, the press release, the reader of that press release would not be made aware that there was no statistically significant comparison between Celebrex and Diclofenac as part of the CLASS study with respect to symptomatic GI ulcers and ulcer complications together; is that correct, sir?
 - A. The read- -- reader is made aware of what was presented by Dr. Silverstein. These slides, you're saying, are the slides that Dr. Silverstein presented, and this press release is consistent with that, that it is the combined Ibuprofen and Diclofenac analysis together, what is -- that is described here.
 - Q. I understand that, sir. But my question to you is a very specific question.

MR. HOFF: Did you finish your answer? BY THE WITNESS:

A. And that -- and -- and by law, that's all they can present.



BY MR. SAHAM:

Q. That -- well enough that maybe -- you may be a lawyer, you may not, I don't know.

A. Right.

Q. You may be an expert on it.My question to you -- let's look at

Exhibit 67, the press release that was issued on the wire services on April 17, 2000, if somebody read this press release, sir, they would not be made aware that as part of the CLASS trial, there was not a statistically significant comparison between Celebrex and Diclofenac with respect to the endpoint of symptomatic GI ulcers and ulcer complications; is that correct, sir?

A. They would not be aware of analyses that were done outside of what Dr. Silverstein presented. So there's a lot of analyses outside of what Dr. Silverstein presented that were not put in here. I would agree that -- that comparison to Diclofenac is not in here.

Q. Okay. So if you read this, you wouldn't know that there wasn't a statistically significant comparison between Celebrex and Diclofenac at the symptomatic GI ulcers combined with ulcer

is talking about the combined endpoint, symptomatic
 GI ulcers and ulcer complications, correct? That's
 the combined endpoint of those two endpoints
 together?

A. I want to make sure we're looking -- reading the same line. So I'm on what appears to be page 2, Paragraph 3.

Q. The first sentence.

A. The study funded experienced significantly fewer symptomatic -- symptomatic GI ulcers and ulcer complications.

That combined endpoint, yes, I agree this sentence is referring to that.

I also will submit that they are saying the -- the comparison is Celebrex with -- compared to the combined Ibuprofen and Diclofenac.

Q. Okay. And -- and that's because you're interpreting the "or" to mean the two together?

A. I'm interpreting, yes, in the context of what the first -- this whole document in the first -- in the first paragraph, it talks about that it was a combined --

Q. You -- you'd agree with me that a reasonable person could disagree with you and read

complications endpoint, correct?

A. If -- your question is, if I read this?

Q. Well, let me read -- I'll ask a better question.

If by reading this press release, the reader of the press release would not be made aware, by reading this press release, that there was no statistically significant comparison between Celebrex and Diclofenac at the endpoint of GI --symptomatic GI ulcers and ulcer complications combined, correct -- is that correct, sir?

A. So in and of itself, by itself in this press release, they do not talk about that analysis.

Q. Okay. And they also -- this press release also doesn't reveal that there's no statistically significant comparison between Celebrex and Diclofenac on the ulcer complication endpoint, correct?

A. Could you repeat it? Because I think you said it in a way that --

Q. Right. My --

A. -- it's not correct.

Q. -- my first question, which I think we established, the sentence here that we started with

the "or" in its ordinary usage, as meaning Ibuprofenor Diclofenac?

3 MR. HOFF: Objection to form.

4 BY MR. SAHAM:

Q. Would you agree that that's possible, sir?

MR. HOFF: Objection to form.

BY THE WITNESS:

A. Anything's possible, but I wouldn't agree with that.

BY MR. SAHAM:

Q. Okay. Now -- now, we're getting back to my set of questions about what's not in Exhibit 67. And my first question -- and I think you've agreed to this, that this combined endpoint that's being referred to in the sentence we've been reading, that -- and -- and -- and now I'm going to ask -- ask my question -- well -- well, strike that.

I'm going to ask a different question. I think I've already asked this and I think you've already answered it, but I just want to make sure.

The reader of this press release would not know by just reading this press release that there was no statistically significant difference on



this combined endpoint between Celebrex and Diclofenac alone; is that correct, sir?

MR. HOFF: Objection to form.

A. That analysis, comparing Celebrex for the combined endpoint of symptomatic ulcers and ulcer complications versus Diclofenac is not referenced here.

9 BY MR. SAHAM:

BY THE WITNESS:

Q. Okay. And -- and if it was, it would have to say that there was no statistically significant difference on that comparison, correct, sir?

A. I don't know what you mean by "have to say."

Q. It's accurate that there was no statistically significant difference on this combined endpoint at either six months or for the entire study when Celebrex was compared to Diclofenac?

A. For reference, you'll have to give me the final data, because I don't have it --

Q. I'd be --

A. -- memorized.

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Q. I'd be glad to. Let me give you what has been marked as Plaintiffs' Exhibit 66.

Could you please take a look at Plaintiffs' Exhibit 66. And obviously, it's a long document, but if you feel comfortable identifying generally what this document is for the record, I'd ask you to do so.

And specifically, I think the information, you know, you want to look at is on pages 6 and 7, the summary of CSUGIE incidents, and on the next page, page 7, the summary of the CSUGIEs and GDU incidents combined at six months and the entire study period.

And -- and I mean, you -- you certainly have the right to review the whole document, but it's a lengthy document and we were sort of in the middle of a --

A. Right.

Q. -- question. So --

20 A. Right.

Q. So if I could ask you, does this appear to be the final -- at least the first 200-and-some pages or -- I'm sorry, let me give you the exact

number -- so at least the first 216 pages of the

final study report?

A. It appears to be, have -- not having gone through it page by page.

Q. And it is -- if you turn to the second page, it's signed by James Lefkowith and William W. Zhao?

A. Yes, this document is.

Q. And -- and what's the final study report?

A. Within -- within the pharmaceutical industry, when a clinical trial is completed, the database is locked, secured analyses are run, and the analyses and all the data, what are considered the final data, are put into a document called the final study report.

The report describes the intent of the study, the -- a summary of the protocol, a summary of the analysis plan. The -- the results are presented and the sponsor's interpretation of those results and conclusions. And that's what this is --

Q. Okay.

A. -- for the CLASS trial.

Q. And looking at pages 6 and 7, those are the -- the summary tables from the synopsis.

What's the point of the synopsis and the

summary tables?

A. In our -- in the Searle organization, the purpose of the synopsis is to present the salient features of the study report, meaning the high-level features.

Q. Is that also referred to as top-line data, sometimes?

A. I don't refer to it as top line because as you can see, there's a lot of information in this synopsis. And to call all of it top line is a very subjective comment.

Q. Well, let's look at pages 6 and 7, Tables 1 through 4.

Is that the top-line data of the CLASS study?

A. I just don't know -- I don't understand what you mean by "top line."

Q. Okay. Well, we'll --

A. I can talk to you about other things, but top line isn't a phrase I use --

Q. Okay. Let's not use it, then.

A. -- when I talk about a study.

Q. Tables 1 through 4, is that the

salient -- you know, if you were really going to put



Ste	even Geis 7955	5	December 10, 2010
	129		131
1	it down to the most important or some of the most	1	symptomatic or GDUs together, and Table 3 is the
2	important things that occur in the CLASS study,	2	first six months; is that correct?
3	does do Tables 1 through 4 summarize much of	3	A. That's correct.
4	that?	4	Q. And then Table 4 is the entire study
5	A. Yes, I would agree.	5	period?
6	Q. Okay. And then Table 1 is a summary of	6	A. That's correct.
7	the CSUGIEs or complicated ulcer incidents for the	7	Q. And it's got P Values comparing all
8	first six months of the trial, correct?	8	four of these tables have P Values comparing
9	A. Well, to go back to some of our original	9	Celebrex to Diclofenac by itself, Ibuprofen by
10	comments when we started, it's CSUGIEs	10	itself and the two NSAIDs together; is that correct?
11	Q. CSUGIEs.	11	A. That's correct.
12	A not CSUGIEs.	12	Q. Okay. And getting back to my question,
13	Q. Can we just call them complicated	13	so if you get back to that sentence in Exhibit 67
14	ulcers	14	that we were talking about, the first sentence in
15	A. Fine.	15	the third paragraph, if you look at Tables 1
16	Q even though	16	through 4, just the comparison with Diclofenac,
17	A. Okay.	17	there's 8 different comparisons in Tables 1 through
18	Q it says CSUGIEs on there?	18	4; is that correct, comparing Celebrex to Diclofenac
19	A. CSUGIEs are	19	by itself?
20	Q. CSUGIE	20	A. I'm sorry, say it again. You're going
21	A. Yeah. Okay.	21	pretty fast
22	Q. It it because it's stuck in my mind	22	Q. Yeah, I'm
23	to call it that way.	23	 A in terms of throwing numbers out.
24	A. I know.	24	Q. I'm real sorry. Yeah.
	130		132
1	Q. But you understand Table 1 is a summary	1	So Table 1, 2, 3 and 4, there's each
2	of the complicated ulcers at six months; is that	2	one of those each one of those four tables has
3	correct?	3	two different comparisons with Diclofenac itself?
4	 For over the first six months, yes. 	4	A. Right.
5	Q. Right. And it and it breaks down	5	Q. And provides a a P Value, correct?
6	P Values, comparing Celebrex to Diclofenac by	6	 That's what these tables show.
7	itself, Ibuprofen by itself and then the two	7	Q. And what's a Log-Rank P Value? Can you
8	together?	8	just give us the simple version of what a Log-Rank
9	A. Yes.	9	P Value is?
10	 Q. And then it also has a table doing the 	10	A. So I'm not a statistician, so I'm
11	same same thing for nonaspirin, the nonaspirin	11	speaking it from a general clinical point of view.
12	group, the people who didn't also take aspirin?	12	A P Value tells you gives you an idea
13	A. For the yes, Table 1 has that for the	13	of the probability that you are either right or
14	first six months.	14	wrong or the the results you have obtained
4 -	O A 14 T 11 O' 4 4 4 1	11 -	for an third table to a self-the annual transfer and the same of the

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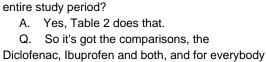
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correct.



and the nonaspirin group for the entire study?

Q. And then Table 2 is the entire study,

those same comparisons I just referenced for the

A. Correct.

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Q. And then Table 3 is this combined endpoint of the complicated ulcers and the

through 4 of Exhibit 66, the eight different

from the trial are either correct or incorrect in

order for a P Value to be statistically significant,

A. For it to be statistically significantly

Q. Right. And if we look in Tables 1

it had to be less than .05; is that correct?

different, it had to be less than .05, that's

Q. Right. And for the purposes of CLASS, in

terms of what is really true.



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Ste	even Geis 7956		December 10, 2010
	133		135
1	comparisons with Diclofenac, not a single one of	1	P Value at all.
2	those comparisons between Celebrex and Diclofenac	2	Q. Right. All I'm getting at is, per the
3	were statistically significant; is that correct,	3	protocol and per the study, if you didn't have a
4	sir?	4	P Value of less than .05, like when you were
5	A. These numbers are are greater than	5	comparing Celebrex to Diclofenac, you couldn't
6	.05. But I think it has to be pointed out that	6	claim, at least on that endpoint, that Celebrex was
7	P Values, in and of themselves, do not necessarily	7	better on the particular endpoint being compared; is
8	tell you whether the results of the study are	8	that correct, sir?
9	meaningful or not.	9	MR. WEISS: I objection to the form.
10	Q. Right. But you could	10	MR. HOFF: Objection to form.
11	A. You have to interpret them in the context	11	BY THE WITNESS:
12	of what you know about all of the data.	12	A. What I'm struggling with is the word
13	Q. You you couldn't make a claim that the	13	"claim." You couldn't say that the P Value was
14	difference was due to something other than chance,	14	greater than .05. But I could say, because of
15	the way this study was set up, unless the P Value	15	confounding circumstances, although that P Value is
16	was less than .05; is that correct, sir?	16	greater than .05 and for other things that we know
17	MR. HOFF: Objection to form.	17	about the study, I would I could possibly claim I
18	BY THE WITNESS:	18	think treatment groups are different.
19	 I'm sorry, could you repeat the question. 	19	BY MR. SAHAM:
20	BY MR. SAHAM:	20	Q. Right. But you you can't make a claim
21	Q. You couldn't make and is it is it	21	of statistical significance per the protocol unless
22	fair to say if something is not statistically	22	the P Value was less than .05; is that correct, sir?
23	significant, it could have been caused as a result	23	A. Statistical significance I would agree
24	of just chance or a random	24	that you cannot say something is statistically
	134		136
1	A. If it's	1	that the P Value is less than .05 when the P Value
2	Q occurrence?	2	is that you see is greater than .05.
3	A not statistically significant, it	3	Q. So so therefore, none of these eight
4	could have been caused by chance? No, it could have	4	comparisons on pages 6 and 7 have a P Value less
5	been caused by imbalances in treatment groups.	5	than .05 when Celebrex is compared to Diclofenac; is
6	Q. Well, but you can't conclude	6	that correct, sir?
7	MR. HOFF: Wait, wait.	7	A. That is correct.
8	BY MR. SAHAM:	8	Q. So therefore, you couldn't claim, for the
9	Q it was caused	9	purposes of CLASS, that there is a statistically
10	MR. HOFF: Wait, wait a second. Wait a	10	significant difference on any of these eight
11	second. You have a habit of doing this. I know	11	comparisons between Celebrex and Diclofenac; is that
12	you're eager to answer your ask your questions,	12	correct, sir?
13	but I'm not sure if he finished answering	13	A. Again, I will I think the the
14	BY MR. SAHAM:	14	operational word is "statistically significant."
15	Q. I'm sorry. Are you done, sir	15	But what we do is, when we interpret results, it is
16	MR. HOFF: the question.	16	not just based on statistical methodology. It's
17	BY MR. SAHAM:	17	based on our clinical understanding of all the data.
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Q. -- with that answer?

A. So what I'm saying is, you can get

or not statistically significant, that -- that are

that confounds your ability to determine that

P Values, whether they're statistically significant

not just by chance alone. They are due to aspects

of the study and things that happened in the study

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Q. Right. That aside -- I'm just talking

A. Okay. As long as we understand --

A. -- that we're talking about just -- just

a P Value and results cannot be interpreted just

based on a P Value. In that context, I would agree.

about statistical significance.

Q. Totally, sir.

- Q. So you're agreeing with me you couldn't make a claim that there is a statistically significant difference on any of these eight endpoints between Celebrex and Diclofenac?
- A. I would rather we not use the word "claim." We could not say that we were statistically different.
- Q. Okay. I'll -- I'll repeat the question. You can't say, on any of these eight endpoints, that the comparison between Diclofenac and Celebrex was statistically significant; is that correct, sir?
 - A. I agree.

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- Q. Okay. And if you read Plaintiffs' Exhibit 67, the press release, it does not tell the reader that of these eight salient comparisons contained on pages 6 and 7 of Exhibit 66, that there was no statistically significant difference between Celebrex and Diclofenac; is that correct, sir?
- That is correct, but we couldn't anyway. Because in this press release, my understanding is we can only present results that were presented by Dr. Silverstein at ACP.
- Q. And then you -- by that reasoning, you

139

- because that's the first thing and the biggest thing 1 2 and the most important thing about that study, as 3 agreed in the design with the FDA, as agreed with 4 everybody involved. That is the first thing, the 5 major comparison that we are interested in in this 6 study.
 - Q. My --

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A. As -- as is the case, that is the first thing that you do present when you go public, public, when you present it.

And that is what Dr. Silverstein's presentation was the focus of, and that's what he presented.

- Q. My question to you, though: Dr. Silverstein didn't tell any of the doctors in his presentation at ACP that there was no statistically significant difference between Celebrex and Diclofenac on either the combined endpoint or the complicated ulcer endpoint; is that correct, sir?
- A. In the context of what I just said, that was not part of the presentation, correct.
- MR. SAHAM: Okay. We need to take a break to change the tape now.

138

- would agree with me that Dr. Silverstein didn't tell any of the doctors present at ACP that there was no 3 statistically significant comparison between Celebrex and Diclofenac at either the complicated ulcer endpoint or the combined complicated and symptomatic ulcer endpoint; is that correct, sir?
 - A. Okay. Let's -- I need to go back to what was the intent of the presentation --
 - Q. I'm entitled to an answer to my question.
 - And I'm trying to answer your question. The intent of the -- this -- the ACP presentation by Dr. Silverstein was the first public presentation of the results of CLASS.

In the -- in the first public presentation any time of a study, it's, you present what is the -- the primary objective that you are looking at. And the primary objective, it was always understood, was comparing Celebrex to the group, combined group, of Ibuprofen and Diclofenac. That was the understanding of the overall hypothesis of the study, how does Celebrex look to those combined.

It was the intent of that presentation to present, as a focus, the results of that analysis, 140

THE WITNESS: Okay. 1 2 THE VIDEOGRAPHER: Going off the video record at 12:03 p.m. 3 4

This is the end of Tape No. 2. (WHEREUPON, a short recess was had.)

THE VIDEOGRAPHER: Going back on the video record at 12:12 p.m.

This is the beginning of Tape No. 3. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 256, for identification, as of 12/10/2010.)

BY MR. SAHAM:

Q. Sir, I'm showing you what's been marked as Plaintiffs' Exhibit 256. It's a one-page document bearing Bates number DEFS 00120490. And this also indicates that it was produced from your files, your electronic custodial documents.

I'd ask you if you recognize it?

- A. I do not.
- Q. Okay. But you don't dispute that this came from your files?



- A. I -- either way, I don't know if it was.
- Q. You may have drafted it or received it? You don't know?
- A. I don't know.

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5 Q. Okay. And I'm -- I want to focus on .5. 6 It says, "How do we defend the pooled analysis of 7 NSAIDs? Did not beat diclo, therefore cannot imply 8 that we did by the pooled analysis."

It is accurate that you didn't -- you didn't beat Diclofenac on any of the four -- or any of the eight comparisons we were looking at on pages 6 and 7 of Exhibit 66, correct?

13 MR. HOFF: Objection to form.

14 BY MR. SAHAM:

> Q. When I say "you," Celebrex didn't beat Diclofenac on any --

MR. HOFF: Objection --

18 BY MR. SAHAM:

Q. -- of those eight comparisons?

20 MR. HOFF: Objection to form. 21 BY THE WITNESS:

> A. I want to go back to what the intent of the study was and how you get to the Diclofenac comparisons.

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As I said earlier, that the overriding objective of the study was to compare Celebrex to the combined group of Diclofenac and Ibuprofen in terms of ulcer complications and -- symptomatic ulcers and ulcer complications. The statistical plan, there were statistical rules for the primary endpoint, which were -- was ulcer complications. BY MR. SAHAM:

Q. I don't want to interrupt you. Why don't we look at those rules. If you get out Exhibit 77 and turn to page --

MR. HOFF: Well, wait a second. You are interrupting him because he's in the middle --

MR. SAHAM: Well, but I'm going to move to strike. It's nonresponsive.

MR. HOFF: No, you're not the judge, so...

MR. SAHAM: I only got seven hours.

MR. HOFF: Wait. You don't have robes, so you can move all you want. It isn't being granted. He is answering your question. You should let him finish, then you can follow up with whatever you want to show him.

23 MR. SAHAM: Okay. And I'm going to move to 24 strike as nonresponsive.

143

But go ahead if you've got more to say --1 2 MR. HOFF: You've got a pending motion to 3 strike that some judge some day may consider. 4 BY MR. SAHAM:

Q. And if it would make more sense,

Dr. Geis, to actually read what the protocol says about how the comparison's done, will that make this

8 more efficient? If you don't want to do it, fine,

but I would recommend that we do it because we have it right here as a marked exhibit.

A. I'd like to say what I have to say, and I'll try to be, you know, clear. And then we can possibly move to that.

But the -- the -- the rules were that for the primary endpoint of the study, which was the comparison of Celebrex to the combined group of Diclofenac and Ibuprofen for ulcer complications, if you were not statistically different for the combined group and you step down to do the comparison of Celebrex versus Diclo alone and Celebrex versus Ibu alone, you couldn't make the

22 claim. Even though you were statistically

significant for either of those, you could not make

that claim.

144

Q. And that's because the null hypothesis is 2 maintained if you don't beat the two combined; is 3 that correct, sir? 4 MR. HOFF: Well, first of all, did you finish

ans- --

THE WITNESS: No.

MR. HOFF: -- your answer?

BY THE WITNESS:

A. So -- so -- so in that context, when you -- there were rules about stepping down in looking at Celebrex versus the individual NSAIDs and the claims you could make if you did not reach the primary endpoint for the combined group of Ibuprofen and Diclofenac.

We did not -- we were not -- we did not beat Ibuprofen and Diclofenac combined for the primary endpoint. And although we stepped down, as you see, we knew you could not make claims based on the stepdown.

So that's what I wanted to say.

21 BY MR. SAHAM:

> Q. Could you take a look at Exhibit 77, the protocol that we looked at earlier, and specifically page 30. And I think this is what you're



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describing -- but you can certainly correct me if 2 I'm wrong -- the top paragraph on page 30 of 36. MR. HOFF: Did you say 67 or 77?

MR. SAHAM: I said 77, yeah. MR. HOFF: Okay. Thank you.

BY MR. SAHAM:

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Q. And the second sentence there says, "A stepwise procedure will be used to strongly control the type-I error. In this procedure, the first step is to test the overall hypothesis, whether Celecoxib and the pooled NSAIDs are different. If the test is not significant, then null hypothesis is retained and the procedure stops."

Is that -- did I accurately read what the protocol says on the -- at least the first part of the stepwise procedure of analyzing the primary endpoint?

- Yes, you accurately read that.
- Q. Okay. So that means if you don't beat the two combined, the null hypothesis is retained.

And what was the null hypothesis?

A. The null hypothesis for, in this case, the comparison of Celebrex versus the two NSAIDs com- -- together for the primary endpoint of ulcer

147

to what our thinking was and what we did.

2 Q. All I'm trying to say is, if you look at 3 the comparisons, the salient comparisons -- I think 4 you described them -- or some of the salient 5 comparisons that are summarized in the synopsis, 6 Tables 1 through 4 -- and we talked about this 7 earlier -- that Celebrex didn't beat Diclofenac or 8 there couldn't be a claim that Celebrex beat 9 Diclofenac on any of those eight comparisons?

A. Statistically, the P Values for the comparisons -- so, first of all, for the ulcer complications, we were not statistically different.

So the stepdown says you can't make any claims once you step down. Okay. Even though we did step down, the P Value, in and of itself, statistically, for Diclofenac was greater than .05.

- Q. Which means it wasn't statistically significant?
 - A. Statistically, correct.
 - Q. Now I would like --
- A. But that is not the -- but that's not the only piece of information you use to interpret the results of a study.
 - But you couldn't say it was statistically

146

1 complications would be that you -- you cannot make 2 the claim -- you would retain the null hypothesis 3 that the two groups, Celebrex versus the NSAIDs 4 together, are not different --

- Q. Okay.
- -- statistically.
- Q. Okay. Is it also correct that as part of the CLASS study -- and specifically we've looked at the combined endpoint and the primary endpoint of complicated ulcers -- that Celebrex did not beat Diclofenac on the eight comparisons talked about on pages 6 and 7 in Tables 1 through 4 of Exhibit 66?

MR. HOFF: Can you read back that question? (WHEREUPON, the record was read by the reporter.)

THE WITNESS: I apologize, could you read it again, really. I mean, because there's a lot of stuff in there. There's a lot of things here, and I want to make sure.

20 BY MR. SAHAM:

- Q. I -- I can ask it simpler, if that would be better for you, sir.
- A. Right. But I don't want to give an answer that can be generalized that is not accurate

148

significant?

A. Statistically. Technically, statistically we could not say that.

- Q. Now, moving down to the next sentence, we spent quite a bit of time on that first sentence in the third paragraph, but the next sentence says, number --
 - A. Help me.
- Q. -- Exhibit 67, the press release, what we stipulated is the press release, that Jonathan Hoff, partner at Cadwalader, has stipulated was the press release --
 - A. Page 2 --
 - -- page 2, Paragraph 3, sentence 2.
 - A. Okay.
- Q. So the one we were talking about, the first sentence in that paragraph, for a long time.

Now we're going to talk about the second sentence, hopefully for not quite as long, but we're still going to talk about it.

And that second sentence, I'm going to read it into the record. It says, "Celebrex was also associated with numerically fewer ulcer complications than the NSAID comparators among all



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patients, and 64 percent fewer of these serious 2 events among nonaspirin users, a statistically significant difference."

Do you see that?

A. I do.

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Q. And that claim is only valid if you looked at the 6-month data, that claim of statistical significance; is that correct, sir?

A. I'd have to look.

It appears that this is referring to the -- what people referred to as the 6-month analysis.

Q. And that claim of statistical significance for the nonaspirin group for ulcer complications, that comparison was not statistically significant for the entire study period; is that correct, sir?

A. So let me go back.

This press release is presenting what Fred Silverstein presented at American College of Physicians. So it's based on that. Fred Silverstein presented numbers related to the 6-month analysis, however, acknowledged that there was data beyond six months. But due to confounding issues

151

- 1 Statistically, but statistics are not the 2 only thing for interpreting the results of a 3 clinical trial.
 - Q. But the sentence --

A. The P Value was not considered valid for interpretation in my view, beyond six months.

Q. But the sentence I just read to you, the last phrase says, "A statistically significant difference," correct?

A. With respect to what is presented right here with -- the -- the sentence that says, the numerically fewer ulcer complications than NSAIDs comparators, that's correct, and that is for the set of data that is considered valid.

So they're saying we're presenting the valid data. We have reasons why this is valid. And, oh, by the way, statistically, it was significant.

- Q. And this press release doesn't tell anyone who reads it that if you looked at the entire study data, that statistically significant difference did not continue; is that correct, sir?
- A. Well, it presents what Dr. Silverstein presented. Dr. Silverstein presented this 6-month

150

related to how this study was conducted, the data beyond six months was not considered valid.

So he presented the valid results of the study. That's what he presented in his presentation. As I said earlier, my understanding is, you can, in the press release, only talk about the data that was presented in the presentation.

So this data reflects Fred Silverstein's presentation, which reflects what is considered the valid analysis of the study.

Q. Okay. And I've -- I've got sort of two short questions to follow up on that.

You would agree with me that this claim of statistical significance with respect to the nonaspirin subgroup for complicated ulcers did not hold for the entire study period; is that correct, sir?

A. If you are just talking about P Values, the P Value for the longer term analysis, which now is almost meaningless because you are including an entire set of data that's invalid, that P Value, yes, was greater than .05.

Q. So therefore, you couldn't say it was statistically significant, correct, sir?

152

1 analysis, which was the valid analysis. He 2 acknowledged that data beyond six months was not 3 valid. So --

Q. Could you look --

-- he presented what he -- he presented Α. in his data.

Q. Could you look back at Exhibit 252, the slides from Dr. Silverstein's presentation at -- at American College of Physicians.

Can you show me the slide that points out that there was a confounding -- there was confoundings to the data after six months, or that there was biases that required the data to be excluded after six months?

A. So I am on exhibit -- I believe you call these exhibits at the bottom right-hand corner?

Q. 252.

A. Yes. And there is a set of slides which I don't recognize specifically, but based on the e-mail, it appears that these were finals that Fred Silverstein presented.

However, I do have some question about the specific set -- the set you gave me because there's something wrong with some of these slides



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that I can't believe Silverstein used them.

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But having said that, there is no slide that shows data beyond six months. However, I was at that presentation, and it was specifically said that the data beyond six months -- there was data beyond six months. There was -- and -- and it was confounded for a variety of reasons.

And that was heard by the audience, and it was heard -- I mean, actually, I think there were analyst reports which talk about that Silverstein said there was longer data, but he only presented six months' data.

So although there isn't a slide, I'm confident -- I know it was stated and he said it was nonvalid after six months.

- Q. You would agree with me that turning back to the press release, Exhibit 67, there's no statement addressing that the data after six months was confounded; is that correct, sir?
- A. There is -- he's -- the -- the press release is presenting what Dr. Silverstein presented, and it -- and it refers to data for six months.
 - Q. But it doesn't say anything that the --

155

- significant on the complicated ulcer primary 1 2 endpoint, it doesn't in any way reveal the press 3 release itself, in no way reveals that that conclusion could only be based on the 6-month data; 5 is that correct, sir?
 - A. I disagree because it is -- this data is referring to Fred Silverstein's presentation at ACP.
 - Q. Fred Silverstein's presentation at ACP was not circulated via the wire services on April 17, 2000, was it, sir?
 - A. I can't speak to that because I don't know. But I know that the introductory paragraph refers to, as presented at ACP. And so it is the data at ACP that is presented here.
 - Q. My question to you --
 - A. And that's what I would do as a reviewer -- or a reader of this, go, what did he present? And that would be --
 - Q. My question to you, sir -- and I'm entitled to an answer to this question -- a reader of this press release, if you've read it, a securities analyst, whoever, me, anybody who read this off the wire services would not know that the claim of statistical significance -- just based on

154

the entire study data was not shared because it was confounded; is that correct, sir?

- A. This press release -- although Fred Silverstein said it, this press release does not say that.
- Q. And this press release, if you look down to the paragraph after the one that we were looking at on page 2, the fourth paragraph, the first sentence says, quote, This rigorous outcomes trial set the bar higher than previous study -- well, let me read that again because I think I misread it.

"This rigorous outcomes trial set the bar higher than any previous study of its kind. It included a large number of patients who received four times the recommended OA dose of Celebrex for up to 13 months."

That's what the press release says,

- A. The press release is quoting what Fred Silverstein said, and, yes, that's what this sentence says.
- Q. Okay. So this press release in no way indicates that the sentence we were reading earlier about the nonaspirin subgroup being statistically

156

- 1 this document, the reader would not know that the 2 claim of statistical significance for the nonaspirin 3 subgroup for complicated ulcers, the claim of 4 statistical significance could only be made based on 5 the 6-month data; is that correct, sir? 6 MR. HOFF: Objection to form.
 - BY THE WITNESS:

8 A. I can't tell you what someone else would 9 know. I can only tell you, when I read this, what 10 it says to me. 11

BY MR. SAHAM:

Q. The -- the person who conducted the study, you're the person --

MR. HOFF: Objection to form.

BY MR. SAHAM:

Q. -- who conducted the study or were -- was a -- were a supervisor of the studies?

I'll strike that question.

My question to you, Exhibit 67, you've been designated by Pharmacia with respect to the issuance of this press release --

MR. HOFF: Only -- only with respect to the -the process for drafting it and who was involved in it.



MR. SAHAM: Well -- well --

MR. HOFF: He's not -- your -- your -- your topic does not contemplate the discussions about the content of the press release.

BY MR. SAHAM:

Q. The topic of the press release is -- -- or that -- what you've been designated as -- and I think you've testified to this already, but I'll read it into the record -- quote, the issuance of the press release, including, but not limited to, the process for and individuals involved with drafting, editing and approving the press release.

You've been designated to testify on that topic, correct, sir?

A. Yes.

Q. And my question to you, sir, as both Steven Geis and as that designee, the text of Exhibit 67, the words contained within Exhibit 67 does -- do not disclose that this claim of statistical significance for the nonaspirin subgroup for complicated ulcers is based on 6-month data; is that correct, sir?

MR. HOFF: Objection to form, sir. BY THE WITNESS:

A. This data, it's my understanding of the process for the -- for writing a press release is, they can only present data that was presented in the press -- they can only present data in the press release that is what was presented at the presentation to the public. This is consistent with that, and it is the 6-month data.

BY MR. SAHAM:

Q. Can you point to me where it says that the -- in this Exhibit 67, can you point to me to any spot in the press release where it says that the claim relating to the statistical significance of the nonaspirin subgroup for complicated ulcers is based on the 6-month data?

A. I would go to Paragraph 1, line -- one, two, three, four, five -- six: "The findings presented at the American College of Physicians annual meeting," to me, says go to that.

That was a focus of the 6-month data, and that's what this is referring to.

Q. And do you know how a reader of this press release could attain the ACP presentation, either a video or slides of it?

A. That, I can't speak to. I don't know how

they could. All I know is the process of how press
 releases are put together, what is appropriate for a
 press release.

And as I read it, and as I have read many press releases before for other companies, when it says, the findings presented at this place, you go to that place to get the detail that you need --

Q. Other than that --

A. -- if you have a question.

Q. Other than that sentence that says, "The findings presented," is there any other spot in the press release that you believe reveals to the reader of the press release that the statement about statistical significance in the nonaspirin subgroup for complicated ulcers was based on 6-month data?

I'll have to read this again.

That is the spot. I don't find another reference.

Q. Okay. Looking at Exhibit 67, there's no reference in this -- you just read it a couple times.

There's no reference in here to the FDA alternative definition of complicated ulcer, is there, in this press release or in Dr. Silverstein's

presentation?

A. That's --

MR. HOFF: Could you read back that question. (WHEREUPON, the record was read by the reporter.)

BY THE WITNESS:

A. The alternative definition was requested by the FDA, and there was -- the analyses were not completed. The statistical analyses were not conducted on that endpoint because we missed the primary comparison of Celebrex to NSAIDs for ulcer complications.

In the statistical report, it says, if you miss on the -- that one, you can't make a claim on the FDA requested analysis.

So that analysis was not done because, as acknowledged, we did not reach our primary endpoint for the primary analysis of Celebrex versus the NSAIDs compared together for ulcer complications. BY MR. SAHAM:

Q. Do you recall that Diclofenac was numerically superior on the alternative definition of complicated ulcer as per the FDA's definition?

A. I don't recall that.



Q. Okay. Could you turn back to Exhibit 66, the final report, and specifically I'd like to turn your attention to Table 8.v on page 158.

And this indicates that there were 17 uncensored complicated ulcers in the Celecoxib treatment group using the FDA definition; is that correct, sir?

- A. So this table is for the entire study period which includes beyond six months, which is invalid data as determined by consensus of the external authors and the internal people.
 - Q. Okay. But it --

- A. So in that context, yes, the number is 17.
- Q. Okay. And -- and the number for Diclofenac is five; is that correct?
- A. In this table, the number in the Diclofenac column is five.
- Q. And there are approximately double the number of people in the Celecoxib group?
 - A. That's correct.
- Q. Okay. And the -- this table also calculates the crude incident rate, and for Celecoxib, that's --

- A. That's correct.
- Q. And there's 6-month data that's

 communicated regarding the combined endpoint, which

 wasn't even a primary endpoint, correct, of

 symptomatic ulcers and complicated ulcers together?

 That's communicated at six months, correct?
 - A. The -- the -- the primary endpoint of the study was ulcer complications using the definition by the end- -- by Searle. The coprimary was used, the definition, by FDA.

The incidence of symptomatic ulcers was predefined in the protocol to be analyzed. And it was appropriate, and it was clinically appropriate to do the combined endpoint analysis, which was presented for six months at the ACP meeting.

- Q. But the bias you're talking about before, that didn't in any way affect the -- the validity of 6-month data for the coprimary endpoint on the FDA alternative definition; is that correct, sir?
 - A. Repeat the question.
- Q. Your whole -- it's the informative censoring, the bias issue that you've been talking about of why you think the post 6-month data is invalid that you've talked about?

- 1 A. Right.
 - Q. -- .43; is that correct, sir?
 - A. It is correct that the crude rate on this table for Celebrex is 0.43 percent.
 - Q. And for Diclofenac, it's .25?
- A. It's correct that's what the number reads.
- Q. And that's about half of Celecoxib'scrude incident rate?
 - A. When you are looking at an analysis that includes an enormous amount of data that is invalid. So it's meaningless. The number --
 - Q. It's the coprimary endpoint in the study, though, correct, sir?
 - A. It was the co- -- it was predefined as a coprimary endpoint, but for all the reasons that have been described in the report and dis- -- and disclosed to the FDA, there was a bias in the study after six months. So the data beyond six months is not valid. The numbers are fundamentally uninterpretable.
 - Q. But there's six months' data that was communicated regarding the other coprimary endpoint, correct?

- The post 6-month data is invalid.
- Q. That -- that whole bias --
 - A. Right.
- Q. -- and validity analysis --
 - A. Right.
- Q. -- wouldn't prevent you from analyzing this --
 - A. Right.
- Q. -- coprimary endpoint at six months, correct? That wouldn't play into that; am I right about that, sir?
 - A. It wouldn't have to.
- Q. But it wouldn't -- it wouldn't affect the six -- the validity of 6-month data on this coprimary endpoint?
- A. I haven't really thought about that in detail, so I -- I don't know. I'd have to think about that.
- Q. But you -- you would agree with me that this coprimary endpoint, which at least, according to this table, Diclofenac was numerically superior, that's not referenced in any way in the press release which is Plaintiffs' Exhibit 67?
 - A. Ask the question again, please.



- Q. This -- this data about the -- any data about the coprimary endpoint, none of that is referenced in Exhibit 67; am I right about that?
 - A. It's --

- Q. Or am I somehow reading Exhibit 67 --
- A. It's not --
 - Q. -- inaccurately?

A. It's not represented in Exhibit 67, which is the press release, because it was not presented by Dr. Silverstein at the American College of Physicians, and it couldn't be by FDA rules.

- Q. So Dr. Silverstein was prevented from talking about the coprimary endpoint at the ACP?
- A. Dr. Silverstein was not prevented to do anything.
- Q. He could have talked about the coprimary endpoint?
 - A. If people -- he could have.
- Q. And he could have talked about the entire study data? There was nothing preventing him from doing it?
- A. The data that Dr. Silverstein presented was the data that was considered the most valid data for the primary analysis of this study --

Were you involved in the decision to use the 6-month data instead of the entire study data?

A. I was involved in the de- -- in the decision-making as one of the scientists participating in analysis review that the 6-month analysis was valid, and beyond that, it was not valid.

As part of that, I was part of -- I endorsed the presentation of the most valid data or the valid data from this study when it was publicly disclosed.

- Q. And Dr. Needleman was part of that process, as well?
- A. We worked in a collaborative effort. Our decisions were made with getting scientists and clinicians to look at data together and give their insights into what they think is the results of the trial, interpretation of analyses and hence, what is the most valid data.

Dr. Needleman, in that sense, participated in all of those activities.

Q. Okay. So in addition to yourself and Dr. Needleman, who else that was employed by Pharmacia or Searle participated in those

- Q. And who --
 - A. -- including -- can I finish, please?
 - Q. Sure. Sorry about that.

A. -- including other appropriate analyses to give physicians an understanding of how Celebrex compared to the combined NSAIDs in terms of GI toxicity. That was the overriding comparison that people were interested when we designed the study, when the study was conducted and at the end. So that was the focus of the presentation.

There are other analyses in -- in a trial, as there always are, that you -- that you just make the clinical judgment that that's not what we're going to present here.

- Q. You were involved in the decision to just publicize the 6-month data; is that correct?
- A. When you say "publicize," explicitly what are you talking about?
- Q. I'm talking about presenting it at the ACP and publicizing it in this press release. And we're going to get to the JAMA article, but that's what I'm talking about, putting it in press releases, putting -- presenting it at ACP and presenting it in the JAMA article.

- discussions which resulted in the decision to publicize, as I've described it, the 6-month data as opposed to the entire study data?
 - A. So I -- I want to break that down. One thing you said is, who was involved in, I think you asked me, reviewing the data to decide what was the most valid. And then the second part was, and who decided what to publish, so I'd like to handle them separately.
 - Q. Well -- well, let's just break it down so it's clear in the record what we're talking about.
 - A. Okay.
 - Q. Who -- who made the decision -- let's just stick with you say -- and for the purposes of this question, you say the 6-month data was valid, the rest of the data was invalid.

Who -- and -- and I want to exclude external authors for a second. We can get to them in a second.

Who, that was employed by one of these companies, either Pharmacia, Pfizer, Searle -- I believe you testified -- and just want to get this in little bitty steps -- that yourself and Dr. Needleman were involved in that process of



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- talking about it and making the decision; am Icorrect about that, sir?
- 3 MR. HOFF: Whoa, whoa.
- 4 BY THE WITNESS:
- 5 A. I didn't --
- MR. HOFF: Wait, wait, wait a second. I'm going to object to the form of the question.
- 8 MR. SAHAM: I'll ask a different question.
- 9 I'll withdraw the question --
 - MR. HOFF: Please.
- MR. SAHAM: -- if you're objecting to it.
- 12 BY MR. SAHAM:

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- Q. I -- I want to break this down so we can do this in little steps --
 - A. Sure.
- Q. -- and -- and hopefully get a question that you can answer yes or no. And then you're going to get a chance to give your explanation, but I just want my simple, straightforward questions so the record's clear: Is it correct that you personally, you know, Steven George Geis, participated in the decision or the discussions regarding whether to use the 6-month data or the 12-month data?

170

- A. I participated in discussions that looked at the data that came to the conclusion the 6-month data was the valid data. In that sense, yes.
 - Q. And Dr. Needleman participated in those discussions?
- A. Dr. Needleman participated in the discussions that looked at the data and came to the conclusion that the 6-month data for ulcer complications and the -- and the GI endpoints was the valid data.
- Q. Who else at Pharmacia participated in those discussions that were senior to you?
- A. So if we could hearken back to some of the discussions we had earlier about presentations that went on between the day the database was closed, the blind, broken, and the analysis brought forward, in all of those presentations, how many there may have been, the intent is not -- the intent is for discussion, input and conversation and hopefully coming to a conclusion of what is the most valid data.

In any one of those presentations, any -and your question is anybody higher than me at Searle, if they were in the room, they had the

171

- opportunity to agree or disagree about the validity
 of the six months. I never remember anyone saying,
 - I disagree.
 - Q. Is it correct --
 - A. So any- -- so anybody who was in the
- 6 room, I would say, by consensus, agreed the six
- 7 months was the valid data for the GI complications
- 8 and the symptomatic ulcers.
 - Q. Is it correct that Mr. Hassan, then, agreed that the 6-month data was appropriately the -- the valid data as opposed to the entire study data?
 - A. I would not interpret that that way.

 Because I wouldn't interpret that presentation in the same light as presenting data to Phil Needleman and other scientists who are intimately involved with this study for two years and compare that to Mr. Hassan who's seeing it for the first time --
 - Q. But -- but --
 - A. -- Mr. Hassan, excuse me.
 - Q. And Mr. Hassan, then, was aware that there was approximately 12 or 13 months of data and that only the valid 6-month data was going to be publicly communicated; is that correct, sir?

172

- A. In the presentation that --
 - MR. HOFF: Objection to form.
- BY THE WITNESS:
- A. So I gave a presentation in PEPAC. I
- 5 think we have, by the documents, assessed or
- 6 determined that it was in early April where Fred
- Hassan was present and I presented the data, which
 included the data beyond the six months, the
- 9 explanation for why we thought the 6-month data was
- the valid data. He was there for that presentation.
- 11 BY MR. SAHAM:
 - Q. And -- and Ms. Cox was there, as well?
 - A. Ms. Cox was at that presentation.
 - Q. And Dr. Ando was there, as well?
 - A. He was.
 - Q. Okay. And any of those individuals could have certainly spoken up and said, no, you -- you should publish the entire data and an explanation as
 - to why six months is better --
 - MR. HOFF: Objection. BY MR. SAHAM:
- Q. -- or more valid?
- MR. HOFF: Objection to form.
 - BY THE WITNESS:



	173		175
1	A. I mean, it could or couldn't. I don't	1	Q. Okay. And do you know what happened to
2	know. What could or couldn't at a meeting? I	2	those PowerPoint slides that you used?
3	don't know what they could or couldn't have said.	3	A. No
4	BY MR. SAHAM:	4	Q. Okay.
5	Q. Let me let me ask it this way	5	A I do not.
6	A. These were open meetings for discussions.	6	Q. Have you looked for them?
7	Q. Okay.	7	A. I have. And I can't find a set that has
8	A. I mean, I don't know what was going on in	8	me convinced I know which ones they were.
9	their heads. You're asking me to guess what was	9	MR. SAHAM: It's probably a convenient breaking
10	Fred Hassan thinking.	10	time for lunch if you guys are hungry.
11	Q. Let let's just break this down.	11	MR. HOFF: It's a convenient time to break if
12	You made a presentation to Hassan, Cox	12	you want.
13	and Ando that made them aware there was data beyond	13	MR. SAHAM: Yeah, let's take lunch.
14	six months; is that correct?	14	THE VIDEOGRAPHER: Going off the video record
15	A. Yes, in in early April.	15	at 12:52 p.m.
16	Q. And you also made them aware that in your	16	(WHEREUPON, the deposition was
17	opinion and Dr. Needleman's opinion, that the	17	recessed until 1:30 p.m.,
18	6-month data was more valid due to the informative	18	this date.)
19	censoring issue?	19	and date.,
20	A. I I would like to correct you on that.	20	
21	You're making it sound like it was just Needleman	21	
22	and my opinion. They were made aware that this data	22	
23	had been presented in in front of multiple	23	
24	scientists internally. And I believe, after the	24	
	174		176
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1	presentation to Mr. Hassan and Ms. Cox was after we	1	UNITED STATES DISTRICT COURT
2	had been in front of the the external authors.	2	DISTRICT OF NEW JERSEY
3	So you had a wide spectrum of scientists	3	
4	and physicians who all had agreed that this 6-months	4	ALASKA ELECTRICAL PENSION)
5	was the most valid, including Dr. Needleman and	5	FUND, et al., On Behalf of)
6	myself and Mr. Hassan and Ms. Cox heard that that is	6	Themselves and All Others) No. 03-1519
7	what had transpired.	7	Similarly Situated,) (AET)
8	Q. Okay. So they were made aware of the	8	Plaintiffs,)
9	explanation as to why the 6-month data was more	9	vs.)
10	valid than the entire study data?	10	PHARMACIA CORPORATION, et al.,)
11	A. I explained the reasons why, yes, in the	11	Defendants.)
12	presentation, as to why we thought the six months	12	
13	was the valid data.	13	12/10/2010
14	Q. And that just so the record's clear,	14	1:34 p.m.
15	that presentation was made to Mr. Hassan, Ms. Cox	15	
16	and Dr. Ando, as well as others?	16	The deposition of STEVEN GEIS resumed
17	A. Correct. This is the presentation I'm	17	pursuant to recess at Suite 900, One South Dearborn
18	referring to in the early part of April where	18	Street, Chicago, Illinois.
19	multiple people were present, and I do remember	19	
20	those folks being there.	20	
21	Q. And you made a PowerPoint presentation at	21	
22	that meeting?	22	
23	A. It included PowerPoint slides and the use	23	
24	of a flip chart.	24	



	177		179
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1 2	PRESENT:	2	THE VIDEOGRAPHER: Going back on the video record at 1:34 p.m.
3	ROBBINS GELLER RUDMAN & DOWD, LLP,	3	This is the beginning of Tape No. 4.
4	(665 West Broadway, Suite 1900,	4	STEVEN GEIS,
5	San Diego, California 92101,	5	called as a witness herein, having been previously
6	619-231-1058), by:	6	duly sworn and having testified, was examined and
7	MR. SCOTT H. SAHAM,	7	testified further as follows:
8	MR. LUCAS F. OLTS,	8	EXAMINATION (Resumed)
9	-and-	9	BY MR. SAHAM:
10	SCOTT & SCOTT LLP,	10	Q. Dr. Geis, can you look at Exhibit 250,
11	(707 Broadway, Suite 1000,	11	specifically slide 43.
12	San Diego, California 92101,	12	MR. SAHAM: Like this one, John.
13	619-233-4565), by:	13	BY MR. SAHAM:
14	MR. MATTHEW MONTGOMERY,	14	Q. And could you just tell me what's being
15	appeared on behalf of the Plaintiffs;	15	communicated in that slide?
16		16	A. So I just want to make sure I'm on the
17	CADWALADER, WICKERSHAM & TAFT LLP,	17	right 40 43. It's entitled Complication Rates
18	(One World Financial Center,	18	(All) Over 12 Months?
19	New York, New York 10281,	19	Q. Correct.
20	212-504-6474), by:	20	A. And it's also entitled a draft?
21	MR. JONATHAN M. HOFF,	21	Q. Correct.
22	MR. JOSHUA R. WEISS,	22	A. Okay. This this appears to be a draft
23	appeared on behalf of the Defendants.	23	slide that looks at crude rates calculated at
24		24	3 months, 6 months and then at 12 months for
	178		180
1	ALSO PRESENT:	1	Celecoxib versus the combined NSAIDs together.
2		2	Q. And when you say "crude rates," that's
3	MR. KEVIN DAILEY, Legal Videographer,	3	the crude rate of ulcer complication?
4	Esquire Deposition Solutions.	4	A. It appears to me from the title that it
5		5	says complication rates. I I'm assuming that
6		6	it they're referring to the ulcer complications.
7		7 8	Q. And this indicates that Celebrex has more
8		9	of an advantage at 6 months than at 12 months, at
10		10	least per the slide; is that correct? A. Well, I mean what was your question
11		11	again?
12		12	Q. Well, my question is, the difference
13		13	between Celecoxib and the NSAIDs, at least according
14		14	to this graph, is greater at 6 months than it is at
15		15	12 months; is that a correct statement?
16		16	A. If you if you're only looking at these
17		17	data on this slide, but you can't look just at this
18		18	data because this includes the data beyond six
19		19	months. We beyond six months, we believe is
20		20	invalid, and therefore, any of the comparisons, any
21		21	of the numbers is highly in question.
22		22	So I look at it and say, beyond six
23	REPORTED BY: NICOLE M. SCOLA, CSR, RPR,	23	months, frankly, I don't even try to interpret it.
24	C.S.R. Certificate No. 84-4524.	24	It makes no sense to me beyond six months.



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Q. Right. I -- I understand that and I 2 understand that you believe or you've testified --3 you know, I don't know what you believe, but I 4 understand that you've testified that you don't 5 think that data after six months is -- is valid, but 6 at least according to this table -- well, 7 irrespective of its validity -- and we can debate 8 that -- at least on the complicated ulcer rate, that 9 it's -- Celebrex looks better compared to the two 10 NSAIDs at 6 months than it does at 12, regardless of 11 whether or not the data's valid; is that correct, 12 sir?

> A. So based on -- somebody put this together. I don't even know -- even though I might think it's in- -- I believe it's invalid after six months, I don't even know if it's correct.

So having said that, the line is, the difference at 6 months looks wider than the difference at 12 months. But in that context, I don't know if it's accurate. It's identified as a draft, and beyond six months, it's invalid data.

Q. Okay. Well, if we look back at Exhibit 66, the signed final study report, pages 6 and 7, the Tables 1 through 4, is it accurate that

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- which is the first column for Celecoxib anyway, and 1 2 then the second column for Diclofenac and the third
 - column for Ibuprofen --
 - A. So --

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- Q. -- do you see that?
- 6 A. -- precisely what is the question?
 - Q. Well, I haven't asked the question.
 - A. Okav. Yes.
- 9 Q. I just want to make sure you're looking 10 at that.
 - A. I'm looking at the raw numbers.
 - Q. So -- so basically, there were, for the entire study period with respect to Celecoxib, six of the seven uncensored CSUGIEs occurred after six months: is that correct?
 - A. So you're comparing 11 in Table 1 versus 17 in Table 2, and you're asking me, is 17 greater than 11? Yes.
 - Q. No. I'm just asking you, six of the seven complicated ulcers that occurred that were uncensored that occurred in the Celecoxib treatment group occurred after six months; is that correct, sir?
 - A. I still don't follow you. Where are you

182

virtually all of the P Value comparisons, whether 2 it's for Celebrex versus Diclofenac, Celebrex versus 3 Ibuprofen or both, is it a fair characterization 4 that virtually every one of the various P Value comparisons increase for the entire study as 6 compared to the six months?

A. So let me get this straight. Comparing Table 1, which is six months, versus Table 2, which is entire study, you're asking me if the P Value, these isolated numbers, are -- are higher in the entire study period versus the six months?

- Q. Correct.
- A. No, that's not true.
- 14 Q. Which one is not higher?
- 15 A. Oh, I apologize, I -- I read this one 16 wrong.

So looking at Table 1 and Table 2, the table that includes all the invalid data that we don't think is interpretable is associated with P Values higher than the table of the data that we think is valid and useful for interpretation.

Q. And also, when you look at this, just the raw numbers, the uncensored CSUGIEs, which is the first column or the uncensored ulcer complications,

184

get -- coming up with the number seven? I see --

Q. Let me ask it differently.

Out of the 17 -- and I apologize greatly -- out of the 17 Celecoxib uncensored complicated ulcers that occurred in the CLASS study. six of those occurred after six months; is that correct, sir?

- A. Based on this table, the 17, yes. The seven of the -- there were 11 that occurred in the first six months, and there were 17 occurred in the -- in the second six, but over the entire period. So there were six additional ones that occurred after six months --
 - Q. And --
- A. -- in the invalid part of the study.
- Q. Right. And with respect to Diclofenac, that's only -- only one occurred after six months; is that correct?
- A. Again, yes. In the valid part of the study, it was nine. In the invalid, there was an additional one.
- Q. And with respect to Ibuprofen, no additional complicated ulcers occurred after six months?



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- Right, which is the invalid part of the Α. study.
- 3 Q. So I know this is just plain third-grade math, but --
 - Sure.

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- Q. -- six of the seven complicated ulcers that occurred after six months were in the Celecoxib treatment group; is that correct?
- Yes. In the invalid part of the study, agreed.
- Q. Okay. But you would agree after six months --
 - A. Which is the invalid part of the study.
- Q. -- yeah -- six of those seven complicated ulcers were in the Celecoxib treatment group; is that correct, sir?
 - A. Six of the seven? No, there were six.
- Q. No. There were seven total because there was also one in the Diclofenac group that occurred after six months.
 - A. Oh, I'm sorry.
- Q. So there were seven after six months, and six of those seven were in the Celecoxib group, correct?

187

- 1 that's -- that's why we believe the second part of 2 this study was invalid. 3
 - Q. You -- you never scientifically proved that that's what was happening, that there was a bias that led to the -- or strike that question.

You -- you never did any scientific work to determine whether the informative censoring or bias claim was actually what was occurring? That was a theory, correct?

- A. That's incorrect.
- Q. What did you do?
- A. So let's go back to -- you -- you're using some terms here that I think we need to clarify so we don't get caught.
- Q. Well, let me withdraw the question. I'm going to withdraw the question.

My -- my question to you is, was it scientifically proven that the bias that you've described was at work? Was that proven scientifically?

A. The bias that I am describing is that there is a differential dropout rate in the two treatment groups in patients most likely to develop an ulcer complication. And there was a higher

186

- A. Yes. In the invalid part -- in the invalid part of the study, there were seven additional uncensored clinically significant ulcer complications, of which six were in the Celebrex group and one in the Diclofenac.
 - Q. And mathematically, that caused the P Values to increase from six months to the entire study period, correct?
- Mathematically? Math -- ask the question A. again.
- Q. Statistically, because six of the seven complicated ulcers that occurred after six months were in the Celecoxib treatment group, it made those P Values -- when you look, six compared to the entire study, it made them increase; isn't that right?
- A. So if we're doing math, I don't know what the math is. But the reason that the P Values increased is because you had an imbalance in the dropout rates of patients -- you had differential dropout of patients most likely to develop an ulcer complication in the NSAID treatment groups.

Now, that may turn into a mathematical equation that you say increases P Values, but

188

dropout rate of people who had symptomatic ulcers in 1 2 the NSAID group versus the Celebrex group as the 3 study progressed. That is -- there's numbers. You 4 can look at the tables. You can look at the figures 5 and show that.

Symptomatic ulcers are -- have been historically correlated to ulcer complications. Recently, FDA had an advisory committee on November 4th where this issue was discussed among experts in the field in front of an advisory committee, and FDA conferred with representatives from the industry that ulcers are surrogates for ulcer complications.

So if you have more people who are dropping out in the NSAID group due to symptomatic ulcers than ulcer complications, that creates a bias. I would submit that that is scientific and -and methodological and that's scientific evidence. That is data that says, yes, there was this differential dropout that made the -- the data after six months invalid.

Q. So -- so I understand it, are you saying it's the occurrence of symptomatic ulcers and the withdrawal rate based on the occurrence of



symptomatic ulcers that created the bias; is that correct, sir?

A. What I'm saying is that -- so what I'm saying is that the withdrawal due to symptomatic ulcers, to me, is the most rigorous explanation. But there is also a component of, we know that patients who have GI symptoms, there is a correlation between GI symptoms and an ulcer complication. And there was a differential dropout rate due to GI symptoms in the NSAIDs group versus the Celecoxib group.

Q. Are you aware of --

A. So the differential dropout rate due to GI symptoms also contributed to the bias after six months, which invalidated the post-6-month data.

Q. Are you aware that there's scientific literature out there that says that there isn't a correlation between symptoms and a bleed?

A. I have -- I mean, over the years, I've -- I've studied this quite a bit, and there are people who do say that.

However, I disagree, and I think that the history of medicine would disagree because physicians believe and see in their practices that

..

I'd ask you if you recognize this document?

And I will certainly refer you to the specific sections that I want to ask you about.

I'd ask you if you recognize this document?

A. Yes, I do.

Q. And what is it?

A. It is the JAMA publication of the CLASS results from September of 2000.

Q. And you are an author of this article?

A. Correct.

Q. And specifically, my first question is, there's no explanation in this article, Exhibit 3, as to the bias being the reason for utilizing six months of data; is that correct, sir?

A. I haven't read this in a while, but I -- so I would say I don't know unless I read it word for word again.

Q. So you -- well, I mean, the -- the document says -- it says what it says.

I mean, do you -- do you recall there being an explanation in here of the -- the bias being the -- that you've described earlier today,

the more severe symptoms you have, the more likely
you are that you're going to have a problem in your
GI tract.

Q. Would you concede that reasonable minds could disagree on that point whether symptoms correlate with a bleed?

A. Not anymore. Maybe years ago, but not anymore because the data has come out in mass and repeatedly in the past ten years, which has basically confirmed this.

Q. At -- at the time of the CLASS trial and the publication of the JAMA article in September of 2000, would you say that reasonable minds could have disagreed as to whether symptoms correlated with the bleed?

A. I can't -- I mean, who -- I would highly question whether they were -- were reasonable minds if they disagree, because the data was so compelling. And there always has been a correlation between GI symptoms and symptomatic ulcers and with ulcer complications.

Q. Okay. I want to show you what's previously been marked as Plaintiffs' Wolfe Exhibit 3.

being the reason for utilizing the 6-month data?

A. I don't recall that it was in here.

Q. Okay. And do you recall that you only submitted -- you and the authors only submitted the 6-month data to JAMA?

A. We submitted, as we do with any publication, the data that we think is the valid data from a clinical trial. In this case, it was the 6-month data.

Q. Okay. But it's your recollection, then, you submitted the 6-month data only to the JAMA editorial board?

A. Again, we -- you know, I think the context that I think is appropriate is, we submitted the valid data, as we always do, for the results of the clinical trial.

Q. Okay. But the valid data in your mind -the data -- there was no data beyond six months that
was submitted to JAMA with respect to these GI
endpoints that are discussed in Exhibit 3; is that
correct?

A. Correct.

Q. Okay. And I want to show you what I'm marking here as Plaintiffs' Exhibit 257.



193 195 (WHEREUPON, a certain document was given that only the 6-month data was even submitted 1 1 2 marked Plaintiffs' Deposition 2 to JAMA, would that be consistent, now that you look 3 3 Exhibit No. 257, for identification, at this article, that there's no reference in here 4 as of 12/10/2010.) 4 to an explanation as to why only the 6-month --5 5 BY MR. SAHAM: well, that's a bad question. 6 6 Q. And I just quickly -- I represent to you I mean, I guess -- I think what we have 7 7 that this is the -- at least a portion of the to do, sir, if you cannot answer the question 8 deposition transcript that was produced in this case 8 without looking at this document, I need an answer 9 9 where you testified in the PI case, the In Re: to that question whether or not there's an 10 Bextra and Celebrex litigation. 10 explanation in here as to why the 6-month data was 11 Do you recall having testified in -- in 11 being utilized. 12 12 that case on or about January 24, 2008? MR. HOFF: So --13 A. I testified -- I gave a deposition at 13 MR. SAHAM: My question is simply --14 14 MR. HOFF: -- you want -- you want him to some point that may have been around this time. I 15 don't know how you described it. I don't -- I don't 15 answer that question? 16 16 recognize that as the -- the case that you're BY MR. SAHAM: 17 17 speaking of. Q. Yeah. My -- my question, sir -- and you 18 Q. But do you recall giving a -- a -- a 18 can take as much time as you need. My question to 19 videotaped deposition in -- in -- at least -- the 19 you is, there was no explanation in Exhibit 3 20 20 title of this deposition is Steven Geis, and it explaining that the reason the 6-month data was 21 21 says, In Re: Bextra and Celebrex Marketing Sales utilized was because of this bias you've described, 22 Practice and Product Liability Litigation. 22 and my question to you; is that correct, sir? 23 23 A. I don't recognize the title, but I know I A. Okay. I'd have to take a look through 24 gave a deposition. 24 this to make sure that there isn't any reference to 194 196 Q. Okay. And I -- I turn your attention to 1 1 that. 2 2 Q. And -- and I guess the question -- and page 446. 3 And you were asked the question: "And 3 I'd accept that as an answer -- is your 4 only six months of that data was given to JAMA for 4 understanding, as we sit here today, that there was 5 the publication, correct?" 5 not a reference and you're just not certain? 6 And you answered: "Well, the six months 6 A. I -- I -- I be- -- I -- as I recall, 7 7 was considered the valid data which was given to there was no reference to that. 8 8 JAMA for publication." Q. Okay. I'll -- I'll accept that. 9 You were then asked: "And who made that 9 A. Let me say it again to be complete: 10 decision to only provide six months of data to 10 There was no reference explaining why the 6-month 11 JAMA?" 11 data was the valid data. 12 "Answer: So the decision to provide the 12 Q. And is it also accurate that 13 valid data to JAMA, which happened to be six months, 13 Dr. Silverstein, who's the first author on this 14 14 was in conjunction with the external authors of the article, told you that he wanted to include such an 15 15 manuscript and the internal people at Searle." explanation? 16 Do you see that? 16 A. That Dr. Goldstein told me --17 17 MR. HOFF: Silverstein. A. Correct. 18 Q. And you believe that's truthful and 18 BY THE WITNESS: 19 accurate testimony? 19 A. Dr. Silverstein told me he wanted an 20 20 A. Yes. explanation as to why the 6-month data was being

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presented?

BY MR. SAHAM:

Q. Correct.

A. Is that the question?



Q. Turning your attention back to Wolfe

author, the fact that only the six months -- and I

Exhibit 3, the JAMA article in which you're an

know you like to call it the -- the valid data --

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- Q. That's the question.
- A. I don't recall that conversation.
- Q. Now, looking at Exhibit 3, is it also accurate that there's no reference in here to the fact that there was not a statistically significant difference with Diclofenac on any of those GI endpoints we've been discussing today?
- A. The manuscript described the results of the overall objective of the study to compare Celebrex versus the NSAIDs combined. For the primary endpoint of ulcer complications, clearly we state we did not reach statistical significance in terms of ulcer complications in comparing Celebrex versus the NSAID group together.
 - Q. Can you -- can you --
- 16 A. I'd --

- Q. Oh, sorry.
- 18 A. -- like to finish my --
- 19 Q. Sorry.
- A. -- statement.

Per the statistical analysis plan, if you -- so -- so the first big picture was, we're going to present the data the valid data on that overriding comparison of this study, which was the nonaspirin subgroup, that there's a statistically significant result?

A. So in Figure 2, No. B on the left-hand side, we are looking at patients not taking aspirin and looking at ulcer complications. And as part of the analysis plan, we were going to look at the effect of aspirin on the results of ulcer complications. And that's what this analysis shows.

And in the valid data set, which is the 6-month data, the number -- the incidents was lower with Celecoxib versus the NSAIDs together, and the P Value was 0.04.

- Q. But the article doesn't reveal that this statistically significant .04 P Value did not hold on this comparison for the entire study period?
- A. So once again, the objective of presenting these data was to present -- prevent -- present the valid data set to physicians for physicians to understand what we saw in CLASS.

That is different than presenting to the FDA. It's a whole different game. You present everything to the FDA. And in my experience, when you do a clinical trial, an animal experiment, you have to make a clinical judgment as to what you put

1 Celebrex versus the NSAIDs. We felt that valid data 2 was important for the medical community to see.

The -- we missed on the primary endpoint. The stepdown procedure said, if you miss on the primary endpoint, the secondary -- the -- the stepdown comparisons to the individual NSAIDs, you cannot make a claim.

So we were consistent with, one, following the statistical analysis plan, and the -- the primary objective of presenting the data was to present the overriding comparison of Celebrex versus the NSAIDs together.

- Q. Can you show me where in Exhibit 3 it says that ulcer complications was the primary endpoint of CLASS?
- A. The phrase "primary endpoint" is not used in this manuscript.
- Q. My next question is, could you turn to the bottom right-hand corner of page 1251, and specifically Figure 2. And I'm looking at Figure 2B, specifically the left-hand comparison of .04.

Is that computing -- communicating to the reader that with respect to complicated ulcers in

in your manuscript. And what you put in is the most
 valid information, the most valid analysis for the
 medical community to get.

We present the most valid analysis was the 6-month analysis, and that's what we presented.

- Q. But a physician wouldn't know, by just reading this article, that if you went for the entire study period on this comparison, the statistically significant finding that's reported in Figure 2B did not hold.
 - A. What I --
- Q. Regardless of whether the data was valid or not --
 - A. But I --
 - Q. -- you wouldn't know that?
- A. -- think you're mischaracterizing it. I think what we don't show is that in an invalid analysis of invalid data, you get a P Value of some number.

And I've never known to write a manuscript where you make a point of saying, and oh, by the way, here's an invalid data set with an invalid analysis and here's a number.

Q. But the reader of this article wouldn't



know that there was additional data that was being
ex- -- excluded because you believed it to be
invalid?

A. I don't know what the reader of this article would have known. Because at the time that this was published, the -- the CLASS data had been presented in multiple forms, in public. It had been acknowledged that there was data beyond six months. I believe analyst reports clearly acknowledged it and talked about it. I believe even the Merck people in a presentation in May of 2000 acknowledged it.

So when you say what would the reader know, I don't know what the reader would know.

Q. Can I ask you this: The invalid data, the post 6-month invalid data, that was less -- even though it was invalid on its face, it was less favorable to Celebrex than the data presented here --

20 A. No.

sir?

Q. -- with respect to the nonaspirin --

A. No, I disagree.

23 Q. Let me finish --

24 A. I disagree.

1 Q. -- complete the question, sir --

A. Okay.

Q. -- just so you're answering, you know, the right question.

With respect to this comparison in Figure 2B on the left-hand side, reporting a P Value of .04 for the nonaspirin subgroup on the complicated ulcer comparison, with respect to this data, the invalid post 6-month data, the data for the entire study is less favorable to Celebrex than what's reported here; is that correct, sir?

MR. HOFF: Objection to form.

BY THE WITNESS:

A. Once you are beyond six months into an invalid data set, to even say something looks worse or better than something else is nonsensical because you're looking at virtually nothing. It doesn't mean anything.

19 BY MR. SAHAM:

Q. There are individuals at Pfizer that were not persuaded by the informative censoring bias explanation as to why the 12-month data was less favorable than the 6-month data; is that correct,

A. I don't recall that.

Q. Do you recall there were some people that thought maybe there was -- physiological adaptation was the reason that the 12-month data was not quite as good for Celebrex as the 6-month data?

A. I have heard of the concept of physiological adaptation. I don't recall anyone internally at Searle/Pharmacia/Pfizer talking about it. I do believe it may have been Dr. Goldkind brought it up --

Q. And Dr. --

A. -- when we were at the advisory committee meeting in February of 2001.

So long after -- so this was after the -- all the data had been submitted to the FDA, multiple presentations had been -- had been made to the public acknowledging there was data beyond six months. The manuscript had been published. We're now into February 2001. That's where I believed I -- I heard it.

Q. And is it correct that Dr. Goldkind was one of the FDA reviewers for the advisory committee on -- on this data?

A. As I recall, he gave a presentation.

Whether he was officially considered the reviewer, I
 don't know, but he gave the present- -- a

3 presentation.

Q. And -- and a statistical reviewer by the name of Dr. Lu also gave a presentation?

A. That --

Q. Hong Lu?

A. That sounds familiar.

Q. And they both rejected the bias argument in -- in -- in favor of -- strike that.

And they both rejected the use of the 6-month data in the informative censoring analysis for the purposes of communicating the data to the FDA?

A. I don't recall exactly what they said.

Q. Do you recall ultimately that the FDA rejected the use of the 6-month data with respect to the SNDA?

A. Rejected the 6-month data? They did not reject the 6-month data.

Q. They required that the full entire study data be reported at the advisory committee as part of the SNDA to change the label of Celebrex; is that right?



A. They didn't require anything for our presentation at the advisory committee in February of 2001.

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- Q. They expressed that you should present the entire data, not just the 6-month data; is that correct, sir?
- A. We had a premeeting discussion with them. They were now familiar with all the data, as were we. We all realized it was a complicated data set with a complicated study that no one ever had conducted before. And we discussed, how do we best present the data so that the audience could fully understand the results of the trial, our logic, the -- and the process we went through for identifying the valid data set.

Their suggestion was, start big and then hone in on the 6-month data, as opposed to, start just with the 6-month data and then talk about the 12-month data.

So really, there was no difference between what they thought and what we thought. It was just the sequence was up for discussion, and it was a consensus, not a mandate, not a recommendation. By consensus, we, with the FDA, 207

correct?

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- A. That's not how I read this.
 - Q. So you're --
- A. I read --
 - Q. -- saying the main outcome measure here
- 6 is --
 - A. Could I finish?
 - MR. HOFF: Wait a second.
- 9 BY THE WITNESS:
 - A. Could I finish?
- 11 MR. HOFF: Let him finish --
 - BY THE WITNESS:
 - A. Could I finish --
 - MR. HOFF: -- finish his answer.
- 15 BY THE WITNESS:
- 16 A. -- my comment?
 - What I read here is the --
- MR. SAHAM: Move to strike as nonresponsive.
- MR. HOFF: He didn't finish his answer.
- MR. SAHAM: And he's not answering my question,
- 21 John.
- MR. HOFF: You're not letting him. You're --
- you keep interrupting him.
 - MR. SAHAM: Because my question is very

206

- said, yeah, that makes sense. We'll start this way to present it so the people can understand the study, all the data and our process for identifying the valid data set.
 - Q. Now, looking at Exhibit 3, the main outcome measure on the first page, which is, I think, the main outcome measure, the combined endpoint of complicated ulcers and symptomatic ulcers together; is that correct?
 - A. I'm sorry, could you repeat your question?
 - Q. I'm just looking at the main outcome measure in the -- I guess you call it the abstract in the front of the article. The main outcome measure, it says, "Incidence of prospectively defined symptomatic upper GI ulcers and ulcer complications (bleeding, perforation, and obstruction) and other adverse effects during the 6-month treatment period."

Do you see that?

- 21 A. I do see that.
 - Q. And that's not the primary outcome of the CLASS trial, that's the combined endpoint of complicated ulcers and symptomatic ulcers; is that

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- straightforward, and he's going --
- MR. HOFF: No, you said, doesn't it say this,
- and he says, that's not how I read it. And he's
- 4 going to tell what he -- how he reads it. So you're
 - getting an answer to this question.
- 6 MR. SAHAM: I'll withdraw the question. See if 7 we can get a -- come to some consensus on what I'm
- 8 asking.
 - BY MR. SAHAM:
 - Q. Is it your testimony, sir, that the main outcome measure listed here in Exhibit 3 is the same as the primary outcome measure of the CLASS study or the coprimary endpoints in the CLASS study?
 - A. As I read this in this manuscript, it says, Incidents of prospectively defined ulcer complications.

That is in here, which is consistent with what was identified as the primary endpoint of the protocol.

Q. Wasn't the primary -- but -- but this also includes symptomatic GI ulcers, which are a less severe ulcer than a complicated ulcer; isn't that correct? This is a combined endpoint of those two endpoints?



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1	A. As I was	1	BY MR. SAHAM:
2	MR. WEISS: Objection	2	Q. And I ask you if you recognize these
3	MR. HOFF: Objection to form.	3	article or these letters?
4	BY THE WITNESS:	4	The question is, do you recognize these
5	 As I was trying to relate to you earlier, 	5	letters?
6	as I read this sentence, I don't read this as	6	A. No, I do not.
7	prospectively the combined endpoint. I read it as	7	Q. Do you recall writing letters to or
8	prospectively defined symptomatic GI ulcers	8	drafting letters to an editor at U.S. News & World
9	separate, and ulcer complications separate. And	9	Report or a Michael Wolfe?
10	then in the statistical methods, it says, we put	10	A. No, I do not.
11	those together as a combined endpoint.	11	 Q. And in this letter, which does bear your
12	That's how I read this.	12	signa signatory, although it's not signed, it
13	BY MR. SAHAM:	13	says it's from you it says in the first letter
14	Q. But that this doesn't at least this	14	on the first page, it says, "All interactions
15	main outcome measure here and and/or the whole	15	between CLASS study authors and the editors of JAMA
16	article, this doesn't reveal that the primary	16	concerning this submission were conducted strictly
17	outcome measure of the CLASS study per the protocol	17	according to standard JAMA protocols."
18	is complicated ulcers by themselves?	18	Do you believe that's an accurate
19	A. The pri it does not use that	19	statement?
20	terminology.	20	A. Where exactly are you reading at?
21	Q. Okay. And and do you recall that JAMA	21	Q. The it's the first sentence of the
22	required or had a protocol checklist that required	22	first paragraph or I'm sorry, it's not the
23	if the main outcome measure was something different	23	first it's the third first sentence of the
24	than the primary objective of a a trial, that it	24	third paragraph. Do you see, "I would like to set
	210		212
1	needed to be disclosed in the article?	1	the record straight"?
2	A. I I'm not familiar with a checklist	2	And then you say, "All interactions
3	from JAMA about that type of thing.	3	between CLASS study authors and the editors of JAMA
4	Q. I want to show you what I'm marking as	4	concerning this submission were conducted strictly
5	Plaintiffs' Exhibit 258.	5	according to standard JAMA protocols"?
6	(WHEREUPON, a certain document was	6	A. I'm really sorry, I can't find the
7	marked Plaintiffs' Deposition	7	sentence. I'm in paragraph the paragraph begins
8	Exhibit No. 258, for identification,	8	with what? Oh, I see it. There. There. That's
9	as of 12/10/2010.)	9	Q. You got it?
10	BY MR. SAHAM:	10	A. Oh, I see it.
11	Q. Could you please take a look at	11	Q. And I'm asking you if you believe that to
12	Plaintiffs' Exhibit 258.	12	be an accurate statement?
13	MR. SAHAM: Oh, I gave you two. Sorry, John.	13	A. So let me clarify something. I I
14	Can you send one back?	14	have don't believe I've ever seen this before.
15	Thank you.	15	Although somebody typed my name at the bottom, I
16	Exhibit 258 is appears to be a	16	won't acknowledge this came from me. Okay.
17	conglomerate of two letters. The first letter is	17	Having said that, you're asking me, do I
18	dated September 18, 2001, and it's it's not	18	believe that the interactions were conducted
19	signed, but it's from Steven Geis to Stacey Schultz,	19	according to standard JAMA protocols? Yes, I do
20	senior editor U.S. News & World Report.	20	believe that
21	And then the second two pages of the	21	Q. Okay. And turn
22	exhibit, last three Bates numbers 037 to 038, is a	22	A to be the case.
23	letter from yourself to M. Michael Wolfe dated	23	Q turning to the second page, the letter
24	August 17th, 2001.	24	that seems to be at least has a signature line



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	213		215
1	for you where you didn't sign, but there is a	1	these first ten pages that you, I believe,
2	signature block for G. Steven Geis, Ph.D., M.D.,	2	accurately pointed out, say 1 of 10.
3	Group Vice President, Clinical Research.	3	Do you recognize these?
4	In the third paragraph there, it says,	4	A. Okay. So do I recognize pages 1
5	"The interaction with the editors of JAMA concerning	5	through 10? No, I do not.
6	this submission follow standard JAMA process?"	6	Q. Okay. Now, looking at the next two pages
7	Do you see that?	7	after that, the 1 of 2, so you're looking at
8	A. I do.	8	Bates number 090 through 091.
9	Q. Do you believe that to be an accurate	9	Do you recognize those?
10	statement?	10	A. I don't.
11	A. So in this letter that I don't haven't	11	Q. Okay. And those are labeled Checklist
12	written or I don't believe I wrote, I don't recall	12	for Authors Submitting Reports of
13	having seen this and didn't sign, that sentence, I	13	A. Uh-huh.
14	believe, is true.	14	Q Randomized Controlled Trials to JAMA?
15	Q. Okay. Now, I would like to show you what	15	A. Yes.
16	I'm marking as Plaintiffs' Exhibit 259.	16	Q. You were an author who submitted such an
17	(WHEREUPON, a certain document was	17	article, correct, or report?
18	marked Plaintiffs' Deposition	18	A. I was one of the authors that
19	Exhibit No. 259, for identification,	19	participated in this submission, yes.
20	as of 12/10/2010.)	20	Q. Okay. And then continuing on,
21	MR. SAHAM: Could you please take a look at	21	specifically the Bates numbers I want to refer you
22	Plaintiffs' Exhibit 259, which for the record, bears	22	to, if you if you start at Bates number 095,
23	Bates numbers DEFS 01714080 through 249. And it's	23	which is entitled JAMA Author Instructions,
24	entitled JAMA Author Instructions, updated	24	Preparing Reports of Randomized Controlled Trials
	214		216
1	January 5, 2000.	1	do you see that?
2	BY MR. SAHAM:	2	A. So we're skipping 092 through 094?
3	Q. And I'd specifically I realize it's a	3	Q. Correct. For now, anyway.
4	lengthy document. I'd ask you just generally, do	4	A. Okay.
5	you recognize it as a as a document you've seen	5	Q. So I'm looking at 095
6	before?	6	A. Yes.
7	A. I'm a little confused because the	7	Q the next five pages that run
8	first this you handed me this stack of paper.	8	through 100, these JAMA Author Instructions.
9	And the first thing says what you'd described as	9	Do you see that?
10	JAMA Author Instructions, updated January 5, 2000.	10	A. Uh-huh, I do see that.
11	And it says pages 1 of 10. So, yes, there are ten	11	Q. And specifically, if you turn to the
12	pages here.	12	third page of that part of the document,
13	But then behind it, it appears to be a	13	Bates number 097, or page 2 of 5 of the
14	second document saying JAMA checklist, 1999,	14	instructions do you see that?
15	pages page 1 of 2. So the first says 2000. The	15	A. I do.
16	second says 1999. So I don't know if they're the	16	Q. And down at the bottom, there's a
17	together.	17	number 7, Main Outcome Measure(s); is that correct?
18	Q. Well, I'll represent to you that the	18	A. Yes.
19	Bates numbers in the bottom right-hand corner are	19	Q. And it says, quote, The primary study
20	all consecutive.	20	outcome measurement(s) should be indicated as
21	A. Yes.	21	planned before data collection began. If the
22	Q. Whether they're different documents or	22	manuscript does not report the main plan collection
2.2	mak tha Datas musikana all musikana austikash carabusa	100	at a atualu. Abia faat abauulal ba atataal aaal ti

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reason indicated.



not, the Bates numbers all run consecutively and we

can break down the document, you know, starting with

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Toll Free: 800.300.1214 Facsimile: 619.239.4117

of a study, this fact should be stated and the

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	\perp	

And my question to you, in Wolfe Exhibit 3, the JAMA article, is there an explanation, as described here in No. 7, that comports with this JAMA author instruction?

A. The first sentence says, "The primary study outcome measurement(s) should be indicated as planned before data collection began."

That is what we did in the protocol on the statistical analysis plan. We stated what the primary outcome was, and it -- it was indicated as planned before the data collection began. So we did do that.

If the manuscript does not report the main planned outcomes, this fact should be stated. We do report the main planned outcomes in JAMA because we do report the incidents of ulcer complications. So we did comply with it.

- Q. But you didn't describe those complicated ulcers as the primary endpoint in the JAMA article, correct?
- A. It doesn't say that. It doesn't say that
 that's what -- a must. They just say, did you
 identify it before you collected the data, which we
 did, and if we're not going to include that in the

Q. And this is the document you pointed out, being the second part of this that has one of two, and it's labeled Checklist for Authors Submitting Reports of Randomized Controlled Trials to JAMA.

Do you see that?

- A. I do.
- Q. And if you turn to the second page, specifically No. 20, in the checklist, it says, "State specific interpretation of study findings, including sources of bias and imprecision (internal validity) and discussion of external validity, including appropriate quantitative measures when possible."

Now, you didn't comply with this requirement because you didn't describe in the JAMA article, Exhibit 3, that the bias was the reason for excluding the second six months of data; is that correct, sir?

MR. HOFF: Objection to form.

BY THE WITNESS:

A. I need to read this to make sure I understand fully what this means.

I think we were in compliance with this.

- 1 manuscript, we must tell them why. But we did 2 include it in the manuscript.
 - Q. You just didn't identify it as the primary endpoint?
 - A. It's not identified as the primary endpoint in the manuscript, but we are consistent with this page that appears to be guidelines of -- of what you're supposed to do, preparing a report of a randomized control trial.
 - Q. Turn--
 - A. Yes, I think we were consistent with what they requested.
 - Q. Turning back to Bates number 090 through 091, the second part of the document, the JAMA 1999, page 1 of 2, Checklist for Authors Submitting Reports of Randomized Controlled Trials to JAMA.

Are you with me?

- A. No, I'm not.
- Q. Tell me when you're with me.
- A. So is the bottom right-hand corner the

21 Bates number?

- Q. Yeah. 090, the last three.
- Are you with me?
 - A. Yes.

- BY MR. SAHAM:
- Q. How did you describe the bias that you've testified about earlier in Exhibit 3?
- A. There are biases in data sets. Even in what we would consider valid data sets, there were biases. So, for example, we think that the -- the high level of aspirin use in the -- in the study was a bias against Celebrex, even in the valid data set.

So we did describe a bias for what we believed was the valid data set, which is what they asked for.

We talked about potential biases when we looked at the baseline demographics comparing the two treatment groups. So we did talk about biases with respect to what we believed was the valid data set. So we were in compliance with this.

- Q. But the bias you talked about earlier that you believe rendered the second six months of data invalid, that bias is not discussed in Wolfe Exhibit 3, correct?
- A. We do not present the data beyond six months because we believe it is invalid.
- Q. And you don't explain how the bias led to invalid data that you have described earlier; is



that correct, sir?

A. I think it is very common to -- to not present all data from a trial in a publication. And you don't have to go through a laundry list as to why you aren't presenting the data that you don't think is valid.

So we are consistent with precedent. We are consistent with practice. And I believe we are consistent with this.

- Q. But the reason you didn't present that additional six months of data was because you believed it to be bias, correct, sir?
- A. We believe -- we believe that the data beyond six months was bias, yes.
 - Q. And you --
 - A. That's why we didn't present it.
- Q. And you didn't describe that bias, the bias that caused, in your opinion, the six -- second 6-month data to be invalid? You did not describe that bias in the JAMA article, Wolfe Exhibit 3, correct, sir?
- A. We didn't describe that bias, but we did describe biases with respect to the valid data set in compliance with this No. 20.

BY MR. SAHAM:

2 Q. Could you please take a look at

Plaintiffs' Exhibit 260.

4 MR. SAHAM: And for the record, Plaintiffs'

Exhibit 260 is a two-page e-mail chain bearing

- 6 Bates numbers DEFS 00169725 through 726. And the
- 7 top e-mail in the chain is authored by George S.
- 8 Geis. And it's dated June 21st, 2002. It's to
- 9 Felix Arellano, Goran Ando and others.

BY MR. SAHAM:

- Q. And specifically, I'd ask you if you recognize Exhibit 260?
- A. I don't remember this e-mail and the preceding e-mails.
- Q. But this is an e-mail that you would have sent on June 21st, 2002?
- A. Well, it is an e-mail that looks like it came from me on 2000 -- June 21st, 2002.
- Q. And you would have sent this in the capacity of your employment at Pharmacia?
- A. I don't recall either way because I don't remember this.
 - Q. Okay. And you write to Felix Arellano and the others listed, But the point I'm trying to

Q. But the bias that you testified about earlier is not described in Exhibit 3?

MR. HOFF: Objection to form.

BY THE WITNESS:

 A. So you -- you'll have to remind me the bias I testified earlier to.

BY MR. SAHAM:

Q. I'm just talking about -- we've talked for a long time now about how you believed that the bias after six months rendered that data invalid.

Am I correctly summarizing your testimony?

- A. Yes, that's correct.
- Q. And that bias that rendered the second 6-month data invalid is not referenced in Wolfe Exhibit 3, the JAMA article which you coauthored?
- A. That's correct. But I will also say we were in compliance with No. 20 on page 2.
- Q. I want to show you what I'm marking as Plaintiffs' Exhibit 260.

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 260, for identification, as of 12/10/2010.) make in the figure is that the NSAID rate decreased with time - which was unexpected. This, in turn, put in question the validity of the analyses of the longer term data. The reader needs to understand this point to understand why the CLASS authors published the 6-month analyses as the initial manuscript.

Do you believe that that's an accurate statement?

A. So I believe that you read this correctly, but we need to talk about -- I need to answer this in light of when this was written and what it's referred to.

So assuming that this is all correct and I wrote this, we are now in June 21st, 2002. The CLASS manuscript has been published. It is in around -- and all the data has been submitted to the FDA. The data has been vetted in public at the advisory committee meeting in February of 2001. And then in August of 2001, the issue begins to arise in the -- in the lay press about data beyond six months.

So now, at this time, the question is being asked, why did you -- specifically, why didn't



225 you include -- why did you believe the 6-month data 1 1 2 was the most valid? 2 3 3 Fast forward now to 2002. A -- letters 4 are written to the editor at BMJ asking, in part, 4 5 that question. So now you have a specific question 5 6 on the table: Why did you believe the 6-month data 6 7 7 BY MR. SAHAM: was the most valid data? 8 I was going to write the response to that 8 9 9 question. And specifically, in response to that 10 10 question, I was putting together my response, people 11 were reviewing it. 11 12 12 So in the sense that the question was 13 asked, this -- I'm saying, in order for them to 13 14 14 understand what I'm saying in my response to the 15 letter, the reader needs to understand X, Y and Z. 15 16 16 So this is completely two years after the 17 17 JAMA manuscript has been published. But 18 specifically the question has been asked, why do you 18 19 19 think the 6-month data is more valid? 20 20 Q. And that question is not answered by 21 21 Wolfe Exhibit 3; is that correct, sir, the JAMA 22 article from September of 2000? 22 23 23 A. We did not put the explanation of why the 24 6-month data was the most valid data in the 24 226

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only used six months of, you know -- or not six months, but half of -- approximately half of a data set chronologically? MR. HOFF: Objection to form. BY THE WITNESS:

A. Could you repeat the question?

Q. I'll -- I'll ask a better question.

Other than CLASS, do you recall any other clinical trials you did where you, you know, just took, you know, a portion of the entire study period and reported it in a -- an academic journal without saying that's what you were doing?

A. We -- in my experience, as I remember -and I'd have to go through all my manuscripts that I've ever written -- I published and -participating and published what we believed was the most valid data. And I don't remember ever feeling that what we were doing with CLASS was anywhere different from that.

Q. I'm going to show you what I'm marking as Plaintiffs' Exhibit 261.

1 manuscript in the summer of 2000.

> Q. And you wrote, in the summer of 2002, that the reader needs to understand this point to understand why the CLASS authors, being yourself, published the 6-month analyses in Exhibit 3; is that correct?

A. So the --

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MR. HOFF: Objection to form.

Go ahead.

BY THE WITNESS:

A. So the -- the 2002 is a completely different audience and completely different setting. When writing the CLASS manuscript, we did what we always do, publish what we believe is the most valid data, which we did.

Two years later, someone asked the question: Why did you consider that the most valid data? We were writing to answer that question. And we were saying, how do we effectively communicate that for the reader?

That's all this was.

BY MR. SAHAM:

Q. Did you ever do a clinical trial, any other clinical trial other than CLASS, where you 228

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 261, for identification, as of 12/10/2010.)

BY MR. SAHAM:

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Q. Could you please take a look at Plaintiffs' Exhibit 261.

MR. SAHAM: And for the record, Plaintiffs' Exhibit 261 is a three-page e-mail chain bearing Bates numbers DEFS 01868956 through 58.

And the e-mail on the first page, not the top one from Lefkowith that says, "Understood, JL," but the e-mail below that appears to be from George S. Geis, dated Sunday, April 22, 2001, to James Lefkowith, Kenneth Verburg and also to George S. Geis. And there's additional e-mails in the chain from Goran Ando and others.

BY MR. SAHAM:

Q. I'd ask you -- my first question is, do you recognize this e-mail?

I asked you if you recognize this e-mail chain?

A. I do not.

Okay. And do you believe -- or strike



that question.

Is this an e-mail that you -- or an e-mail chain that you received and wrote at Pharmacia on or about April 21st and 22nd, 2001?

- A. I don't recall it, but it appears to be.
- Q. Okay. And you have no reason to dispute that this is what -- it is what it appears to be?
 - A. Either way, I don't remember.
- Q. And you wrote -- at least according to the e-mail that has your name on it as an author, you wrote on April 22nd, But a word of caution -- we, as clinical, can't get caught in the trap of implying to our folks or to others that the non-ASA analysis was a predefined as a primary analysis. In fact, I don't think it was defined as secondary. If we make the implication and are called on it we will lose a lot of credibility.

Do you believe that to be an accurate statement?

A. So I believe you read this correctly. And so the question is, do I believe what was written here is accurate?

So let me tell you what I believe was going on at this time in terms -- this appears to be

- Q. So you believe this is an accurate statement: is that correct, sir?
- A. Well, it's an accurate statement in terms of where I believe my -- my mind was at at this time. We are now in -- in discussions with FDA about the label, and we want to make sure there is precision in understanding the analyses of the study.
- Q. So although you don't remember writing this, it's something that you believe to be true?
 - A. Yes.
- Q. And it's certainly under your -- you're attributed to be the author as having sent this e-mail, correct?
 - A. That's what it appears to be.
- Q. Okay. And the people you sent it to are people who were on your team; is that correct -- Dr. Lefkowith and Dr. Verburg?
 - A. Yes, that's correct.
- Q. So you don't have any reason to believe you didn't receive and send this e-mail -- received the prior e-mail and forwarded it on in the ordinary scope of your employment at Pharmacia?
 - A. Well, I don't remember it either way.

in reference to a proposed label change to Celebrex after having made the submission of all the data, after having presented all the data at the February advisory committee meeting in 2001. And now we were talking about proposed wording -- a proposed label change that we made to the FDA.

In those discussions, there was questions of clarity, of -- of precision as to what the analysis plan was and what were the primary endpoints, what was the primary analysis.

And so there was a process where we were going through to be as accurate as possible and consistent with the protocol as possible so we did not -- so someone did not get the wrong impression.

And this was, as part of that, just saying a word of caution. We want to make sure that what we state is consistent with what we did in the protocol and the statistical analysis plan.

So in that context, yes, this was correct.

- Q. And you believed --
- A. We wanted to make sure we were consistent with what we said we were going to do.

- Q. But given that it -- it -- it -- it

 appears to be an e-mail that you received and

 sent -- I mean, do you have any reason to dispute
 that?
 - A. It appears to be -- I don't remember it either way. It just appears to be a -- a series of e-mails that -- that I was copied on, and I wrote the one at the top. That's what it appears to me. But I don't remember it.
 - Q. And it seems to indicate that the non-ASA analysis was not predefined in the protocol as either a primary or a sec- --
 - A. No, that's not --
 - Q. -- secondary analysis?
 - A. -- that's not what this says. So let's get back to clarity and intent of what these words are.

What I was saying was predefined as a primary, not predefined. It was clearly, as I remembered it, predefined that we were going to do an effective aspirin on the analysis of ulcer complications. That clearly was predefined.

But what I was cautioning is to say, it was not -- as I remembered, it was not predefined as



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1	a primary analysis. And I was basically saying, go	1	in the CLASS protocol and statistical analysis plan.
2	back and make sure my mind is correct on this,	2	So I was just saying, there's so much
3	because we don't want people to think that we were	3	going on. We're now a year and a half out. I don't
4	being inconsistent with the protocol.	4	want to depend on my memory in terms of this word.
5	Q. Right. Let	5	You need to check it.
6	A. Let me be clear. Aspirin was the	6	Q. Would you please turn back to Wolfe
7	effect of aspirin was predefined. And I was saying,	7	Exhibit 3, the JAMA article. And specifically, we
8	make sure people understand it was not predefined as	8	were looking at Figure 2, Section B on the left-hand
9	a primary analysis.	9	side about the nonaspirin subgroup.
10	Q. And I I think you may have misheard my	10	There's no indication in Wolfe Exhibit 3
11	question, so I'm going to have the court	11	that this nonaspirin analysis was not predefined as
12	A. Okay.	12	a primary endpoint in the CLASS protocol; is that
13	Q reporter read it back to you and see	13	correct, sir?
14	if you	14	A. Could you repeat the question? I'm
15	A. Please.	15	sorry.
16	Q can answer it in a yes or no fashion.	16	MR. SAHAM: Could could you read it back,
17	MR. SAHAM: Would you mind reading back the	17	ma'am.
18	question.	18	(WHEREUPON, the record was read by
19	(WHEREUPON, the record was read by	19	the reporter.)
20	the reporter.)	20	BY THE WITNESS:
21	BY THE WITNESS:	21	A. That is correct. But I would also point
22	A. And so my answer is, you're incorrect.	22	out that in the JAMA manuscript under Main Outcome
23	BY MR. SAHAM:	23	Measures, we don't talk about aspirin, either.
24	Q. It was the primary	24	MR. SAHAM: Okay. And I would move to strike
	234		236
			230
1	A. It	1	
1 2		1 2	the second part of the answer as nonresponsive.
	Q or secondary e-mail?		
2	Q or secondary e-mail?A. It was predefined as an analysis. In the	2	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262.
2	Q or secondary e-mail?	2 3	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was
2 3 4	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. 	2 3 4	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262.
2 3 4 5	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was 	2 3 4 5	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition
2 3 4 5 6	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. 	2 3 4 5 6	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification,
2 3 4 5 6 7	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that 	2 3 4 5 6 7	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM:
2 3 4 5 6 7 8	Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that correct, sir?	2 3 4 5 6 7 8	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM:
2 3 4 5 6 7 8	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that correct, sir? A. That is correct. 	2 3 4 5 6 7 8	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document, Dr. Geis.
2 3 4 5 6 7 8 9	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that correct, sir? A. That is correct. Q. Okay. And, in fact, you wrote here, in fact, I don't think it was defined as a secondary? 	2 3 4 5 6 7 8 9	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document, Dr. Geis. MR. SAHAM: And for the record, Plaintiffs'
2 3 4 5 6 7 8 9 10	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that correct, sir? A. That is correct. Q. Okay. And, in fact, you wrote here, in fact, I don't think it was defined as a secondary? A. So we are talking about a year after 	2 3 4 5 6 7 8 9 10	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document, Dr. Geis. MR. SAHAM: And for the record, Plaintiffs' Exhibit 262 is a document bearing Bates numbers
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q or secondary e-mail? A. It was predefined as an analysis. In the protocol, we don't specifically use the word secondary. Q. But it wasn't the non-ASA analysis was not predefined as a primary analysis; is that correct, sir? A. That is correct. Q. Okay. And, in fact, you wrote here, in fact, I don't think it was defined as a secondary? A. So we are talking about a year after how many years after the protocol and the stats plan was written? So so let me let me give you some context. In the year 2000, I was responsible for two full NDAs and two SNDAs, so I had teams working on results of multiple protocols, multiple results and multiple submissions. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the second part of the answer as nonresponsive. I want to show you what I'm marking as Plaintiffs' Exhibit 262. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 262, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. Could you please take a look at that document, Dr. Geis. MR. SAHAM: And for the record, Plaintiffs' Exhibit 262 is a document bearing Bates numbers DEFS 00754326 through 329. And then the last page of the document, again, indicates that this document was produced from your custodial files, your electronic files. BY MR. SAHAM: Q. Do you have any reason to believe this document wasn't produced from your files? A. I don't recall it either way.

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saying, go back and check this. I don't remember

what wording we used in terms of primary, secondary,

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Toll Free: 800.300.1214 Facsimile: 619.239.4117

be Shown or Given to Any External Audiences -

February 9, 2001. Q&A: FDA Advisory Committee

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1	Hearing on Proposed GI Safety Label Revisions for
2	Celebrex.
3	Do you recall there being an advisory
4	committee concerning the proposed GI safety label
5	revisions on February on or about February 7th of

227

- the year 2001? A. I remember a GI -- FDA GI -- FDA advisory committee meeting taking place. To say it was specifically about proposed GI safety label revisions, I don't know that I can characterize it that way.
- Q. And -- and -- and when you say it took place, do you recall it taking place on or about February 7th, 2001?
 - A. Yes, I do.

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- Q. Okay. And you recall it was a two-day meeting where both Celebrex and VIOXX were discussed over the 7th and the 8th? Does that comport with your recollection?
- 20 A. Well, there was one day where Celebrex 21 was discussed. The second day was where the VIOXX 22 was discussed. So it wasn't, like, two days of 23 both. It was one day for one, one day for the 24 other.

238

- Q. And was there any VIOXX -- or, sorry, was there any Celebrex discussion on the second day, to the extent you remember?
 - A. I don't recall if the advisory committee dis- -- referenced what we had presented the day before during the VIOXX discussion. That, I don't remember.
 - Q. Okay. And looking at the second question here, the Q&A, which I've marked as Exhibit 262, it says, "What was the Arthritis Advisory Committee's recommendation regarding the Celebrex label?"

And the answer says, "Due to the complexity of the CLASS data, the advisory panel on day one (February 7) experienced difficulty in interpreting the results."

Do you believe that's an accurate statement?

- A. I don't.
- Q. Why not?
- 19 20 A. I mean, I'm trying to remember -- I mean, 21 when you say the advisory panel experienced 22 difficulty, I don't know what -- in the eyes of 23 whoever wrote this, what difficulty looked like.

I mean, I think, as we all know, the

239

CLASS trial was complex. It was a big trial. It 1 2 was a trial that had been conducted -- it was the 3 first of its kind. I think, in the world.

4 So there would be questions about it 5 because it wasn't typical. It wasn't a typical 6 model. Because they asked questions and they 7 discussed it, does that mean they were -- it was 8 difficult? I don't know.

Q. Do you recall generally --

MR. HOFF: Whoa, whoa, whoa, wait a second. Did you finish?

THE WITNESS: No, I didn't.

BY THE WITNESS:

14 A. And I think, once again, we presented all 15 the data and we walked through the process of why we 16 believed the 6-month data was the valid data. 17

BY MR. SAHAM:

- 18 Q. Are you done now?
 - A. I'm not done now.
- 20 Q. Sorry, you paused.
 - A. And I think that they were intently looking at it and trying to understand it. Does
- 23 that mean difficulty or does it mean attention and
 - vigilance to do what they were there to do? I

240

- wouldn't call it -- I guess I would just wouldn't --2 as I recall it, I wouldn't characterize it as 3 difficult.
 - Q. And -- and was it common that the company Pharmacia or Searle generated these types of Q&A to -- to deal with, you know, issues of importance regarding drugs at the company?
 - A. I can't speak to that.
 - Q. I mean --
 - A. I don't know.
 - Q. -- do you ever remember seeing Qs and As when you worked there?
 - A. There were occasions where, again, they -- there were occasions where the commercial side would put these together, but I don't know if there was a -- it was done systematically, if there was a process or procedure. But on occasion, these types of things, I did see.
 - Q. And -- and you're not disputing that this was found in your electronic files?
 - A. As I said earlier, I don't remember either way.
 - Q. Okay.
 - MR. SAHAM: All right. We -- we need to take a



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1	break to change the tape, so why don't we take a	1	how do we want to manage this and you have no plan.
2	quick quick break.	2	We got together in early 2000 to work out
3	THE VIDEOGRAPHER: Going off the video record	3	a plan. And as I recall, the part of the plan
4	at 2:54 p.m.	4	was to set a price to exercise some options. And
5	This is the end of Tape No. 4.	5	when that price was reached, the the options a
6	(WHEREUPON, a short recess was	6	number of options would be exercised.
7	had.)	7	And then I recall, at some point during
8	THE VIDEOGRAPHER: Going back on the video	8	the year, the some options were exercised.
9	record at 3:05 p.m.	9	That's what I recall about that.
10	This is the beginning of Tape No. 5.	10	Q. Do you recall the name of the wealth
11	(WHEREUPON, a certain document was	11	manager?
12	marked Plaintiffs' Deposition	12	A. The group is currently part of Wachovia.
13	Exhibit No. 263, for identification,	13	I don't know what they were called before, if they
14	as of 12/10/2010.)	14	were at one time, they were Kemper. But I don't
15	BY MR. SAHAM:	15	know if they were Kemper they were Kemper in the
16	Q. Dr. Geis, I'm showing you what's marked	16	year 2000.
17	as Exhibit 263.	17	Q. But do you recall the person's name who
18	Do you recognize this document?	18	you met with?
19	A. No, I don't.	19	A. Yes, I do.
20	Q. Okay. Does this appear to be a schedule	20	Q. What's that person's name?
21	that reports shares of stock and options that you	21	A. So the person who is the wealth manager
22	owned and exercised during the '91 through 2002 time	22	is a gentleman named Gary Personette.
23	period?	23	Q. And do you recall the approximate date of
24	A. Well, it has my name on it. It's a table	24	the meeting?
24	A. Well, it has my name on it. It's a table	24	the meeting?
1	<u> </u>	24	
	242		244
1	242 and it talks about options.	1	244 A. It was early in 2000, because we I had
1 2	and it talks about options. Q. Well, let me ask you this	1 2	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be
1 2 3	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa.	1 2 3	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs.
1 2 3 4	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was	1 2 3 4	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out
1 2 3 4 5	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose.	1 2 3 4 5	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan.
1 2 3 4 5	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause.	1 2 3 4 5 6	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you
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1 2 3 4 5 6 7 8 9 10 11 12 13	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions	1 2 3 4 5 6 7 8 9	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year
1 2 3 4 5 6 7 8 9 10 11 12 13	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified?	1 2 3 4 5 6 7 8 9 10 11	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall	1 2 3 4 5 6 7 8 9 10 11 12 13 14	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this. Q. Well well, let's do this: Do you	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I don't know how much they would have I don't know
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this. Q. Well well, let's do this: Do you recall selling about \$3 million worth of Pharmacia	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I don't know how much they would have I don't know what the word you're using. I don't know you
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this. Q. Well well, let's do this: Do you recall selling about \$3 million worth of Pharmacia stock between August and October of the year 2000?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I don't know how much they would have I don't know what the word you're using. I don't know you know, I don't know the specifics around it, but I do
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this. Q. Well well, let's do this: Do you recall selling about \$3 million worth of Pharmacia stock between August and October of the year 2000? A. In 2000, wealth managers in early	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I don't know how much they would have I don't know what the word you're using. I don't know you know, I don't know the specifics around it, but I do know I exercised stock options before 2000.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	and it talks about options. Q. Well, let me ask you this MR. HOFF: Whoa. MR. SAHAM: Sorry, he paused. I thought he was done. I'm not doing it on purpose. MR. HOFF: Actually, he didn't pause. BY THE WITNESS: A. It has data, assuming, related to various options. BY MR. SAHAM: Q. Okay. And it says it's got your name on it, so you don't have any reason to believe this isn't outlining your options and option transactions in the period specified? A. I don't know. I don't I don't recall this. Q. Well well, let's do this: Do you recall selling about \$3 million worth of Pharmacia stock between August and October of the year 2000?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It was early in 2000, because we I had just done the taxes and I knew 2000 was going to be a very busy year with the two NDAs and two SNDAs. And they said, let's get together early and lay out a plan. Q. And do you know how to spell Personette? A. P-e-r-s-o-n-e-t-t-e, I think. Q. Okay. And you sold as a result, you exercised and then sold approximately 75,000 shares of Pharmacia stock for proceeds of over \$3 million; is that correct, sir? A. I don't know if that's correct. Q. Well, let me ask you this: In any year other than three other than the year 2000, did you ever sell \$3 million worth of stock before? A. I exercised stock options before 2000. I don't know how much they would have I don't know what the word you're using. I don't know you know, I don't know the specifics around it, but I do

24

this chart (indicating)?



me lay out a plan for how to manage my assets.

Because they said, you're getting a lot of assets,

23

Toll Free: 800.300.1214 Facsimile: 619.239.4117

MR. HOFF: Are you getting that \$3 million from

	245		247
1	MR. SAHAM: Yeah. I'm looking at the second	1	A. Okay. In 2000? Or before 2000? Okay.
2	the the shares that were exercised, the 75,000	2	I have a house. I don't know what it was worth in
3	shares that were exercised, the number of options	3	2000. It's in Lincoln Park, which is the real
4	MR. HOFF: And you're multiplying	4	estate is pretty good in Lincoln Park, so that may
5	MR. SAHAM: in the year 2000.	5	have been worth 2 million, I guess. I don't know.
6	MR. HOFF: it by the dollar amount there?	6	And then what I had saved.
7	MR. SAHAM: Yeah, of all those dollar amounts,	7	Q. Okay. So would you say your net worth
8	and it's about 3.7 million.	8	was less than 3 million, other than this stock, your
9	MR. HOFF: I just wanted it to be clear	9	other assets?
10	BY MR. SAHAM:	10	See, I asked a bad question.
11	Q. And I don't want to get into your, like,	11	Were your other assets, other than this
12	personal business, you know, but	12	Pharmacia stock, the 75,000 shares that you
13	A. Sure.	13	exercised in 2000, would you say your net worth
14	Q in the year 2000, what was your net	14	other than that was was some amount less than
15	worth, approximately? I mean, was 3 million a lot	15	3 million?
16	for you back then	16	MR. HOFF: Objection to form.
17	MR. HOFF: I'll object	17	BY THE WITNESS:
18	BY MR. SAHAM:	18	A. Yeah. So first of all, you said that I
19	Q or was that just a little bit?	19	exercised 3 million worth of stock, and I don't
20	MR. HOFF: to the form of the question,	20	remember doing that, so I want to make that clear.
21	unless you're saying, in the abstract, is 3 million	21	So before the year 2000, I think it's
22	a lot of money, you know.	22	safe to say my net worth was under 3 million.
23	BY MR. SAHAM:	23	BY MR. SAHAM:
24	Q. I'm just asking you	24	Q. Okay. So we're looking here and I
	246		248
1	MR. HOFF: We haven't established that	1	just want to walk you through this document that
2	3 million is the right number.	2	I've marked as Exhibit 263. And it has your name on
3	BY MR. SAHAM:	3	it.
4	Q. Well, what was your what was your net	4	And it says down there in the bottom
-	, ,	1 *	And it says down there in the bottom
5	worth, to the extent you remember? And and it	5	the bottom part of the chart, it says Number of
		1	
5	worth, to the extent you remember? And and it	5	the bottom part of the chart, it says Number of
5 6	worth, to the extent you remember? And and it can be very you know, it doesn't have to be	5 6	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says
5 6 7	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact.	5 6 7	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540.
5 6 7 8	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000?	5 6 7 8	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me?
5 6 7 8 9	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net	5 6 7 8 9	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am.
5 6 7 8 9	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much	5 6 7 8 9	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or
5 6 7 8 9 10	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth?	5 6 7 8 9 10 11	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists,
5 6 7 8 9 10 11	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth?	5 6 7 8 9 10 11	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several
5 6 7 8 9 10 11 12	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay.	5 6 7 8 9 10 11 12	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists,
5 6 7 8 9 10 11 12 13 14 15	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you	5 6 7 8 9 10 11 12 13 14 15	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several
5 6 7 8 9 10 11 12 13 14 15 16	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want.	5 6 7 8 9 10 11 12 13 14	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do.
5 6 7 8 9 10 11 12 13 14 15 16 17	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum	5 6 7 8 9 10 11 12 13 14 15 16 17	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists
5 6 7 8 9 10 11 12 13 14 15 16 17 18	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum amount that I could into the the retirement fund.	5 6 7 8 9 10 11 12 13 14 15 16 17 18	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists A. Right.
5 6 7 8 9 10 11 12 13 14 15 16 17 18	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum amount that I could into the the retirement fund. I don't even remember what my salary was.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists A. Right. Q two transactions on 9/29
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum amount that I could into the the retirement fund. I don't even remember what my salary was. Q. Well, I'll show you a document that shows	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists A. Right. Q two transactions on 9/29 A. Right.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum amount that I could into the the retirement fund. I don't even remember what my salary was. Q. Well, I'll show you a document that shows you that soon.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists A. Right. Q two transactions on 9/29 A. Right. Q 2000?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	worth, to the extent you remember? And and it can be very you know, it doesn't have to be exact. But what was your net worth in 2000? A. I don't know how do you figure net worth? I mean, is it like, do you say, how much money in the bank? How much is your house worth? How much is your car worth? Q. Okay. A. I mean, what do you Q. You can do that however you want. A. I don't know. Q. Just give me a ballpark figure. A. Wow. I mean, I was putting the maximum amount that I could into the the retirement fund. I don't even remember what my salary was. Q. Well, I'll show you a document that shows	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the bottom part of the chart, it says Number of Options. And then if you total them all up, it says 75,540. Are you with me? A. I am. Q. So does that mean you had or or and this and this is the first column says, Activity Date. It's labeled Option Activity. You see me? And it says Activity Date, and it lists, you know, some dates, several several transactions that occurred on 10/2/2000. Do you see that? A. Yes, I do. Q. And then it also lists A. Right. Q two transactions on 9/29 A. Right.



	249		251
1	8/16/2000. And then it lists the activity. It says	1	and just keep that in front of you. We're
2	Cash, then it says Grant Type/Grant Code. And It	2	THE WITNESS: Okay.
3	says PHAM NQC. And then the next column lists the	3	MR. SAHAM: It's the same thing, it's just a
4	number of options.	4	an idiosyncrasy in the way that the document was
5	A. Yes.	5	produced to me last night that I want to make clear
6	Q. If you tally all those up, it equals	6	for everyone.
7	75,540.	7	(WHEREUPON, a certain document was
8	Do you see that?	8	marked Plaintiffs' Deposition
9	A. I do.	9	Exhibit No. 264, for identification,
10	Q. And then there's the Grant Date. And I	10	as of 12/10/2010.)
11	assume that's the date those options were granted.	11	MR. SAHAM: So I'm marking this document which
12	Does that make sense?	12	bears the Bates number DEFS 001958. Showing this
13	A. As much as I understand that, yes.	13	document to you, which appears to be the same
14	Q. And then it has the Exercise Price.	14	document, but that I've marked as 263. But part
15	Is that your understanding, the exercise	15	of it's cut off.
16	price on the option? That's what you can actually	16	MR. HOFF: Actually, it's not the same, but
17	sell it for?	17	that's okay.
18	A. No, I don't understand what that means.	18	MR. SAHAM: Well but in any event, you guys
19	Q. Isn't isn't that you get an if	19	produced to me 2 what I've marked as 264?
20	you get a stock option, you might be able to buy it	20	MR. HOFF: That's true.
21	for 9, but if the stock's trading at 40 at the time,	21	MR. SAHAM: And then last night, you sent me a
22	if you exercise the option, you're going to make	22	document, and I'll represent to you it's this
23	some profit because you're only paying 9 of the	23	document that's 263.
24	A. Right.	24	MR. HOFF: Uh-huh.
	250		252
1	Q what it was granted at and stay solid	1	MR. SAHAM: And it has a Bates number on it
2	at 40?	2	when I opened it up electronically, but when I print
3	A. So is that, the exercise price, the price	3	it out, for some reason the Bates number does not
4	that is the price of the stock the day you exercise?	4	print out.
5	So is that what that	5	MR. HOFF: Okay.
6	Q. I think	6	MR. SAHAM: And, you know, I I'd like there
7	A means?	7	to be some understanding between us, you know, that
8	Q that's what it indicates to me,	8	you guys look at this document and determine it's
9	anyway.	9	what you produced. But the Bates number for some
10	Is it logical to you that that's what it	10	reason does not print.
11	means?	11	MR. HOFF: Well, let's
12	MR. HOFF: Well, objection.	12	MR. WEISS: You you wouldn't have it unless
13	MR. SAHAM: We can stipulate, too, if you want,	13	I produced it to you.
14	John.	14	MR. SAHAM: Right. So and that's all I'm
15	MR. HOFF: I no, no. I'm not going to	15	getting at.
16	stipulate. I think you should just ask him if he	16	MR. HOFF: I'm I'm this looks like what
17	you know, what what he knows about the document	17	we gave you most recently. That would be
18	and what he can tell you about it.	18	Exhibit 263. The earlier document is I think
19	MR. SAHAM: Okay. Well, I mean, I'm just	19	you're marking 264.
20	MR. HOFF: This is a this is a company	20	MR. SAHAM: That's what you provided me about a
21	document.	21	week ago?
22	MR. SAHAM: Yes. And and I maybe I	22	MR. HOFF: Correct.
		100	MD CALLAM. And then OCO to subot your may detect
23	should make this statement on the record. And I'm	23	MR. SAHAM: And then 263 is what you provided



MR. HOFF: Was it last night? MR. WEISS: Yeah. MR. HOFF: Correct, yeah. BY MR. SAHAM: Q. So looking back at 263, sir, you know, what I did to come up with that 3 million in proceeds is, I just multiplied all the exercise prices, you know, by the -- by the number of options that were exercised at that price. And I'm not great at math, but I get something over \$3 million. MR. WEISS: Could you say -- can you read that back. MR. SAHAM: Well, I'll say it again. BY MR. SAHAM: Q. Well, I'm just saying that you've got

Q. Well, I'm just saying that you've got these number of options which are exercised on particular days, and then you have an exercise price.

So -- and then you -- and you don't have a total for the exercise price or -- or for the total amount. But what I did is I multiplied the number of shares in each spot times the -- the price and then added them all together and I get something around \$3 million.

together a game plan.

2000, I knew, was going to be a very busy year for me because I was scheduled to submit or oversee the team that was submitting two NDAs and two SNDAs. So the idea was, if we are going to get together and put a plan together, it has to be early in the year.

I do remember we got together. We talked about a plan. And -- and -- and one of the -- the -- the -- the plans was to, let's exercise some stock options if it is possible and if it is appropriate. And that was part of the plan.

And then I do remember, later, hearing that they did exercise them, but I don't remember amounts, numbers or anything like that.

- Q. Now, do you remember -- and I know you don't -- you just testified you don't remember the exact amounts, but do you remember selling in the millions of dollars worth of stock -- Pharmacia stock in the year 2000?
 - A. I don't.
- Q. You have no recollection of whether it was \$38 worth of stock or a lot?
 - I knew it was a lot. I don't know how

1 MR. WEISS: But you --

2 BY MR. SAHAM:

Q. Is that illogical to you to calculate what this document is saying, sir?

- A. I'm not a stock person, so I don't understand this. But what you say is not -- it's not nonsensical.
 - Q. Okay.
 - A. I just don't know if you're accurate.
- Q. Right. And then what I'm getting at, too, is that you're a guy that was worth less than \$3 million in 2000. If you sold \$3 million worth of stock, don't -- don't you think you'd remember? Isn't that sort of a big deal?

A. Well, what I remember, as I said, was meeting with the tax fella. So at a time of my life, whatever year 2000 was -- so I'm getting close to 50 -- the tax guy is doing my taxes for 1999 and says, you know, you have a lot of assets. We need to put a plan together for you because -- or do you have a plan for -- for the rest of your life?

And I said, yeah, the plan is, work and put the money in the bank. And he says, well, let's get together with these wealth managers and put

- 1 much it was -- it was.
- Q. Okay. And what did you do with the proceeds?
 - A. The proceeds, I -- the wealth managers created an annuity at some point, whether it was right away or not.
 - Q. And --
 - A. Part of the -- part of the proceeds went to an annuity, and I don't know exactly what the other went to.
 - Q. Okay. And do you still have the annuity?
 - A. Not that particular annuity, no.
 - Q. Did you sort of roll it over into

something else?

- A. As I recall, yes, that's what we did.
- Q. And what's the size of that annuity --
- A. In terms of --
- Q. -- the value?
- A. -- what it's worth?
- Q. Correct.
- A. So I -- well, it depends on what you
- mean, "what it's worth." Because the -- if I sold
- it today, I think it's different than if I wait.
 - And I guess you take money out of it when you get so



	257		259
1	old, something like that. Is that isn't that how	1	A. I
2	that works?	2	Q. And then you add them together
3	But anyway, I think the last time I met	3	cumulatively, and I get 1.6 million.
4	with the wealth managers, which is now a different	4	A. You're adding exercise gain per option
5	group of people, I think I think it was, like, a	5	and getting 1.6 million?
6	million dollars, a million two.	6	Q. Yeah.
7	Q. Okay. And then when you look at the	7	A. Is that what you're doing?
8	exercise price for each of these shares that we were	8	Q. You have to multiply the exercise gain
9	looking at at that middle column, that number is	9	for each of those number of shares by the number of
10	greater than the option price for each of these	10	options.
11	entries, each of these one, two, three, four,	11	A. I can't do that in my head and come up
12	five, six, seven eight entries that are listed in	12	with a number.
13	this table, correct?	13	Q. Okay. But does it look to be a
14	A. That's correct.	14	significant number, a number in excess of a million
15	Q. And the difference between the option	15	dollars, by eyeballing it?
16	price and the exercise price, that's profit for	16	MR. HOFF: Objection to form.
17	yourself, correct, sir?	17	BY THE WITNESS:
18	MR. HOFF: Well, objection to form.	18	A. So that would be 2 well, it looks like
19	BY MR. SAHAM:	19	it could be over a million.
20	Q. Uncle Sam might take some, but the rest	20	BY MR. SAHAM:
21	is profit, correct?	21	Q. Okay. And then other than your meeting
22	MR. HOFF: Objection to form.	22	with the wealth manager, is there any other reason
23	BY THE WITNESS:	23	you decided to exercise this stock these stock
24	A. Well, as you're doing the math and what I	24	options in the year 2000?
	258	+	
1		1	260 A No.
1	know of these things, that is that is what they	1 2	A. No.
2	know of these things, that is that is what they call the exercise gain. Whether it's profit to me	2	A. No. Q. And do you know, out of you you
2	know of these things, that is that is what they call the exercise gain. Whether it's profit to me doesn't I don't know exactly if that means it's	2 3	A. No. Q. And do you know, out of you you exercised 75,540 options, and in the table above,
2 3 4	know of these things, that is that is what they call the exercise gain. Whether it's profit to me doesn't I don't know exactly if that means it's profit to me or not.	2 3 4	A. No. Q. And do you know, out of you you exercised 75,540 options, and in the table above, some of the options weren't weren't given to you,
2 3 4 5	know of these things, that is that is what they call the exercise gain. Whether it's profit to me doesn't I don't know exactly if that means it's profit to me or not. BY MR. SAHAM:	2 3 4 5	A. No. Q. And do you know, out of you you exercised 75,540 options, and in the table above, some of the options weren't weren't given to you, even the option, until after 2000.
2 3 4 5 6	know of these things, that is that is what they call the exercise gain. Whether it's profit to me doesn't I don't know exactly if that means it's profit to me or not. BY MR. SAHAM: Q. And if you do that math there, the profit	2 3 4 5 6	A. No. Q. And do you know, out of you you exercised 75,540 options, and in the table above, some of the options weren't weren't given to you, even the option, until after 2000. So out of the ones prior to 2000, do you
2 3 4 5 6 7	know of these things, that is that is what they call the exercise gain. Whether it's profit to me doesn't I don't know exactly if that means it's profit to me or not. BY MR. SAHAM: Q. And if you do that math there, the profit or the exercise gain is over \$1.6 million, isn't it?	2 3 4 5 6 7	A. No. Q. And do you know, out of you you exercised 75,540 options, and in the table above, some of the options weren't weren't given to you, even the option, until after 2000. So out of the ones prior to 2000, do you know which of those or what percentage or how
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	261		263
1	whether you know if you exercised all of them or	1	Re: Deviation from SOP for above-referenced studies
2	not?	2	(CLASS trial).
3	A. I know as I recall and, again, I	3	BY MR. SAHAM:
4	don't remember the details of what this was. As I	4	Q. I'd ask you if you recognize this
5	recall, we did not exercise them all.	5	document?
6	Q. Do you know what percentage you	6	A. I don't recall seeing this.
7	exercised?	7	Q. But this is an e-mail that you would
8	A. I don't.	8	have or that you sent on March 17, 2000, to
9	Q. Do you know, would you have records or	9	Dr. Friedman?
10	documents that would show that information?	10	A. I don't recall seeing it, but I don't
11	A. I've looked through my documents and do	11	I don't recall either way.
12	not have any records of of this, other than	12	Q. And this is a memo that was written to
13	other than tax returns.	13	the file that your name's on as a From, on the
14	MR. SAHAM: Okay. And we we make a request	14	second page?
15	formally for those documents to the extent they're	15	A. This is it's a memo, and my name's
16	in Mr or Dr. Geis's possession or the company's	16	typed on it. So in that sense, yes.
17	possession, that a document be produced to us and	17	Q. And the second paragraph on the second
18	that certainly we could serve you with an	18	page states, "Notification of database closure will
19	interrogatory, as well.	19	be restricted to a limited subset of the Study Team
20	But to the extent there is a document	20	to minimize the potential dissemination of
21	that indicates how many or documents together that	21	information that might violate SEC regulations
22	indicate how many options were available or had	22	regarding disclosure of material information."
23	vested in this point in time during 2000, we would	23	Do you see that?
24	like to have them produced.	24	A. I do see that.
	262		264
1	MR. HOFF: We'll consider it. I'll just say,	1	Q. And did you have an understanding in
2	we have been trying to find the documents that	2	March of 2000 that there was, at least for some
3	reflect the stock activity, and so far, the best we	3	point in time, a restriction on trading stock
4	could come up with is what we've given to you.	4	because of the the results of the CLASS trial
5	MR. SAHAM: Thank you.	5	were known internally but not externally to the
6	MR. HOFF: But we'll we'll continue.	6	public?
7	MR. SAHAM: Okay. I want to show you what I'm	7	MR. HOFF: Objection to form.
8	marking as Plaintiffs' Exhibit 265.	8	BY THE WITNESS:
9	(WHEREUPON, a certain document was	9	A. Could you repeat the question?
10	marked Plaintiffs' Deposition	10	MR. SAHAM: Could you read that back, ma'am.
11	Exhibit No. 265, for identification,	11	(WHEREUPON, the record was read by
12	as of 12/10/2010.)	12	the reporter.)
13	BY MR. SAHAM:	13	BY THE WITNESS:
14	Q. Could you please take a look at	14	A. I did not know of that.
15	Plaintiffs' Exhibit 265.	15	BY MR. SAHAM:
16	MR. SAHAM: And for the record, Plaintiffs'	16	Q. But this document seems to be indicating
17	Exhibit 265 is a two-page document bearing	17	that the database or strike that.
18	Bates numbers DEFS 01605472 through 73. The first	18	This document does indicate that, quote,

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page is an e-mail from George S. Geis to Michael

Friedman, dated March 17, 2000. The subject is

to study file N49-98-02-035 and 102, and it's from

CLASS Database Close. And the attachment, or the

Jay Lefkowith, W. Zhao and G. Steven Geis. And it's

second page of the document, is dated 17 March 2000

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21

22

23

24

Toll Free: 800.300.1214 Facsimile: 619.239.4117

notification of database closure will be restricted

the potential dissemination of information that

of material information.

to a limited subset of the Study Team to minimize

might violate SEC regulations regarding disclosure

That's what the document says, correct?

SCE	reir Gers)	December 10, 2010
	265		267
1	MR. HOFF: Well, why don't you finish the rest	1	Silverstein did acknowledge there was data beyond
2	of the paragraph?	2	six months. But we believed the data, the 6-month
3	BY THE WITNESS:	3	data was valid.
4	A. So the the rest of the paragraph is,	4	That was presented again at DDW in
5	"This period of restriction will be limited to the	5	April excuse me in May. After Fred
6	period of time up to approval of the pending merger	6	Silverstein's presentation, the analyst wrote
7	between Pharmacia/Upjohn and Monsanto."	7	analyst reports acknowledging there was data beyond
8	So it says to me, this is this SEC	8	the six months, so that was in the public.
9	regulation is with respect to the merger	9	And Merck, in their presentation at DDW
10	BY MR. SAHAM:	10	in May of 2000, also acknowledged there was data
11	Q. Did you also	11	beyond six months.
12	A not about having anything to do with	12	So the public knew there was data beyond
13	trading stock related to CLASS.	13	six months through a variety of venues from April,
14	Q. Would would you agree that there was	14	whenever American College of Physicians took place,
15	material information that was in the possession of	15	onward.
16	yourself and others internally at Pharmacia after	16	BY MR. SAHAM:
17	the merger before it was disclosed publicly?	17	Q. Did any of those communications at any of
18	MR. HOFF: Object to the form of the question.	18	those venues inform the public that the data after
19	BY MR. SAHAM:	19	six months was less favorable to Celebrex than the
20	Q. With respect to the CLASS data.	20	6-month data, at least on certain endpoints?
21	A. Could you repeat the question?	21	A. It was they were it was
22	Q. Okay. Was there information that you	22	acknowledged that it was invalid data. So to call
23	knew internally because you were working on the	23	it less favorable is inaccurate because if it's
24	study and let's say at least prior to April 17th	24	invalid, any comparison is meaningless.
	266		268
1	when there was some disclosure about it prior to	1	Q. But certainly nobody was told that
2	that time, you knew some stuff that people on the	2	invalid, not invalid, that statistically significant
3	street didn't know about CLASS, correct?	3	comparison that's in Figure 2B in your JAMA article,
4	MR. HOFF: Objection to form.	4	nobody was told that that comparison mathematically,
5	BY THE WITNESS:	5	statistically, didn't hold for the entire study
6	A. So prior to Fred Silverstein's	6	period; is that correct, sir?
7	presentation, we had the results of the trial. In	7	A. So, again, it was invalid data and
8	that sense and that was not publicly available.	8	P Values related to invalid data were not were
9	BY MR. SAHAM:	9	not talked about. However, all the data was
10	Q. And even after April 17th, there was some	10	submitted to the FDA in June and was fully vetted in
11	stuff that you knew that the rest of the public	11	the February advisory committee meeting.
12	didn't know, right?	12	Q. And the FDA did not make that data
13	MR. HOFF: Objection to form.	13	public, that full data, until February of 2001; is
14	BY THE WITNESS:	14	that correct, sir?
15	A. What do you mean "there was some stuff"?	15	A. I don't know for sure.
16	BY MR. SAHAM:	16	Q. Okay. But you don't you're not
1	O Mall was longer that they they are it if	1, 7	diamentia a that fact has access on a dealt land.

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Q. Well, you knew that the -- the rest of

A. Well, no, that's not true, because Fred

it was invalid, and, you know, "Joe Q. public"

didn't know that necessarily?

MR. HOFF: Objection to form.

A. Well --

BY THE WITNESS:

the data wasn't being included because you thought

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Toll Free: 800.300.1214 Facsimile: 619.239.4117

disputing that fact because you don't know?

Q. Okay. I want to show you what I'm

marked Plaintiffs' Deposition

Exhibit No. 266, for identification,

(WHEREUPON, a certain document was

A. I don't know either way.

marking as Plaintiffs' Exhibit 266.

as of 12/10/2010.)

	269		271
1	BY MR. SAHAM:	1	A. Well, I I'm confident I've never seen
2	Q. Could you please take a look at	2	this document before.
3	Plaintiffs' Exhibit 266.	3	Q. And do you recall approximately what your
4	And I just ask you, does this document	4	total compensation was from Pharmacia in, you
5	appear to be a spreadsheet entry describing your	5	know if you got tax returns from 2000, right?
6	compensation in the 1999 through 2002 time frame?	6	A. I did.
7	A. I don't know what this is. I've never	7	Q. Do you still have them?
8	seen this before, so I so I don't know.	8	A. Ido.
9	Q. Well, it's got your name on it, right?	9	Q. Would you mind giving them to your
10	It says Geis, G.S.?	10	lawyers to produce?
11	A. Yes.	11	A. Sure.
12	Q. And then it lists and I'm looking at	12	Q. Okay. I'd appreciate it if you could do
13	lines 10 through 23 for 2000. It says you got an	13	that, because then we'd be able to, I think,
14	Edgar M. Queeny award and they gave you 40 grand; is	14	definitively answer how much you were compensated
15	that right?	15	that year.
16	A. That sounds familiar.	16	MR. HOFF: Well, we'll consider
17	Q. So that does sound familiar.	17	MR. SAHAM: Okay.
18	And then it says, 2000 Annual Incentive	18	MR. HOFF: what
19	Award-Pension-SIP able. It says 264 and some	19	MR. SAHAM: And if you want to redact Social
20	change?	20	Security Social Security numbers, I'm all right
21	A. That, I don't know what that means.	21	with that.
22	Q. And then it says but that looks to be	22	MR. HOFF: Well, we'll take a look at them and
23	like a \$264,000?	23	get back to you.
24	A. Well, the number is 264, but I don't know	24	MR. SAHAM: I'd appreciate that, John. Thank
	270		272
1	270 what Annual Incentive Award-Pen-SIP means.	1	272 you.
1 2		1 2	
	what Annual Incentive Award-Pen-SIP means.	1	you.
2	what Annual Incentive Award-Pen-SIP means. Q. And then you drop down to Block 13. It	2	you. I want to show you what I'm marking as
2	what Annual Incentive Award-Pen-SIP means. Q. And then you drop down to Block 13. It says 2000 Restricted Stock Deferral, 318,000.	2	you. I want to show you what I'm marking as Plaintiffs' Exhibit 267.
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2 3 4 5 6 7 8 9 10 11	what Annual Incentive Award-Pen-SIP means. Q. And then you drop down to Block 13. It says 2000 Restricted Stock Deferral, 318,000. Do you see that? A. I see that. Q. Okay. And then under that, there's stock options listed, 2 through 7. And if you add those all up one's 269,000; one's 147,000; one's 169,000; one's 133,000; one's 344,000; and one's 278,000. Do you think that seems like it may correspond with the numbers we had looked at that	2 3 4 5 6 7 8 9 10 11	you. I want to show you what I'm marking as Plaintiffs' Exhibit 267. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 267, for identification, as of 12/10/2010.) MR. SAHAM: Could you please take a look at Exhibit 267. And for the record, Exhibit 267 is a two page e-mail chain, Bates numbers DEFS 00029529
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	what Annual Incentive Award-Pen-SIP means. Q. And then you drop down to Block 13. It says 2000 Restricted Stock Deferral, 318,000. Do you see that? A. I see that. Q. Okay. And then under that, there's stock options listed, 2 through 7. And if you add those all up one's 269,000; one's 147,000; one's 169,000; one's 133,000; one's 344,000; and one's 278,000. Do you think that seems like it may correspond with the numbers we had looked at that the 3 million and the 1.6 million in the that we looked at in Exhibit 263 and 264? A. I I don't know what this is referring to. Q. And then it says, Regular Pay \$248,000. Does that seem consistent with what you were being paid in this time frame as an executive or as a vice president? A. It sounds like it's within the range.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you. I want to show you what I'm marking as Plaintiffs' Exhibit 267. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 267, for identification, as of 12/10/2010.) MR. SAHAM: Could you please take a look at Exhibit 267. And for the record, Exhibit 267 is a two page e-mail chain, Bates numbers DEFS 00029529 through 530. BY MR. SAHAM: Q. And you're not on this chain, but what I'm referring to well, no, you are. It it it it the subject matter of the e-mail at the bottom of the first page from Fletcher to Weiner, it says, Background on request for Joe Feczko to call G. Steven Geis. And then it refers, on the next page, that you're basically giving a consultant agreement when you left Pfizer that could pay you up to



this and read it and see what it is.

So what's the question?

- Q. Well, my question is, do you recall getting a consulting agreement when you left Pfizer in -- I guess, 2003, did you leave Pfizer?
- A. So I was never an employee of Pfizer. Pharmacia/Monsanto merger was in 2000. I retired in August of 2002. It was still Pharmacia. When I left Pharmacia, Pharmacia asked me to consult related to helping with the arbitration issues for the Cox-IIs and those types of things.

So I had a consulting agreement with Pharmacia, and then I believe it was in 2000 -- was it in 2002 that Pfizer bought Pharmacia? I don't recall that we ended up with a contract -- I ended up, then, with a contract with Pfizer, but I can't remember.

- Q. And what arbitration issues are you referring to?
- A. The -- well, I don't know exactly what they're referring to here. But -- but arbitration with European authorities refers to when you make a submission to the European Union Community of -of -- of Countries like you do to the FDA.

There is a process that you go through where you -- where you review the data, answer questions to the data. And my understanding is the term is called arbitration. So it's the interaction with the Health Ministries in Europe regarding your submission.

- Q. Okay. And then at any point in time, did you become a paid consultant of Pfizer?
- A. I don't recall. As I recall, there was a consulting agreement with Pharmacia that went for a year, and I don't think there was another one with Pfizer.
- Q. Have -- have you ever been paid by either Pharmacia or Pfizer after 2002 or 2003?
- A. Well, in -- so in 2002 -- so it was August 2002 when I retired, and then during 2002, I was consulting for -- for Pharmacia and was -- and did get consulting fees as a result.
- Q. I'm talking about after that.
 Did you ever get paid by either Pharmacia or Pfizer after that?
- A. After all the consulting? After the consulting?
 - Q. Well, when did the consulting end?

- A. Well, I think it was -- it was a one-year contract that started around August or September of 2002 with Pharmacia to end, if it would be a year, in August or September of 2003. But then Pfizer bought Pharmacia, and what I don't remember is if there was a new contract written with Pfizer.
 - Q. When was the last time you received consulting money from either Pharmacia or Pfizer?
 - A. My best recollection is sometime in 2002.
- Q. Okay. And then what about the depos you gave in 2008, did they pay you to appear at those depos -- depositions?
- A. For -- for prep time, I was -- I wasn't paid by the company. I believe I was -- I was compensated for my time through -- I don't know if it was Sidley or through the other -- another law firm.
- Q. And Sidley & Austin, the law firm that we're at today?
 - A. Yes.
- Q. And -- and is it your understanding that Pfizer would have reimbursed Sidley for paying you, or do you think they were just paying you themselves?

- A. I don't know what those arrangements were.
- Q. You didn't ask those questions?
- A. No
- Q. Okay. And have you received any payments from any law firms relating to anything having to do with Pharmacia or Pfizer since 2008?
 - A. No.
- Q. And are you getting paid -- did you get paid or are you getting paid for your prep time for today's deposition?
 - A. No, I'm not.
- Q. Okay. And why is that different than the other deposition?

MR. HOFF: To the extent you have to answer that -- you can answer -- you can answer that question based upon conversations with counsel, I'll instruct you not to answer.

Independent information other than conversation with counsel, you can answer to that extent.

BY THE WITNESS:

A. So I don't know what all this means. All I know is I'm not being paid.



	277		279
1	BY MR. SAHAM:	1	Q. And specifically, I only want to ask you
2	Q. And do you think it's because you're a	2	a question about the last page of the document, but
3	defendant in this case and they don't want to pay a	3	I'd ask you just generally, do you recognize this,
4	defendant because it would create bias?	4	or is it like all the other documents, you just
5	MR. HOFF: Objection.	5	can't say one way or the other whether you've seen
6	BY THE WITNESS:	6	it before?
7	A. I don't know.	7	A. I don't recall seeing this having seen
8	BY MR. SAHAM:	8	this before.
9	Q. And what do you do today? Like, what	9	Q. Okay. But you don't dispute one way or
10	are you still working or are you retired?	10	the other that it came out of your custodial
11	A. I do consulting.	11	electronic files?
12	Q. And do you do any none for Pfizer or	12	A. I can't I don't remember either way.
13	Pharmacia well, there is no Pharmacia, but	13	Q. Okay. Now, I want to refer you to the
14	anything for Pfizer?	14	last page of the document, the second bullet point.
15	A. No.	15	And it says, "Make clear when results are presented
16	Q. Okay. For other pharmaceutical	16	for data truncated at 6 months."
17	companies?	17	Do you see that?
18	A. Yes.	18	A. I see that phrase, yes.
19	Q. Okay. Anything related to Cox-II	19	Q. Okay. And that wasn't done in the JAMA
20	inhibitors?	20	article? It doesn't indicate well, strike
21	A. Anything related to Cox-II inhibitors?	21	strike that. That's a bad question.
22	Some of the companies I deal with are dealing with	22	Do you believe this is an accurate
23	compounds that that may be in the family of	23	statement that you should make clear when results
24	NSAIDs where the Cox-II data is pertinent. So in	24	are presented for data truncated in six months?
	278		280
1	that sense, yes, but nothing related specifically to	1	A. I just want to read this, the context of
2	Celecoxib. None of the companies do anything with	2	what they're who's saying it and when they're
3	Celecoxib.	3	saying it.
4	Q. Okay. I want to show you some a	4	Okay. So the question is?
5	document that I'm marking as Plaintiffs'	5	Q. My question to you is and I read to
6	Exhibit 268.	6	you that statement in the bullet point.
7	(WHEREUPON, a certain document was	7	Do you believe that's an accurate
8	marked Plaintiffs' Deposition	8	statement?
9	Exhibit No. 268, for identification,	9	A. That it's accurate that somebody made the
10	as of 12/10/2010.)	10	statement?
11	BY MR. SAHAM:	11	Q. No. Do you think that's true that you
12	Q. And like we have previously, I'll	12	should make clear when results are presented for
13	represent to you that this document was produced	13	data truncated at six months?
14	from your custodial files or indicates that it was	14	A. I'm not sure I didn't understand the
15	produced from your custodial file.	15	phrase, "make clear when results."
16	Take a look at that document.	16	Q. Do you do you believe that if you're
17	MR. SAHAM: And for the record, Plaintiffs'	17	talking about the 6-month data publicly, you should
18	Exhibit 268 bears the Bates numbers DEFS 00675735	18	say, look, these results are the 6-month data, not
19	through 740.	19	the entire study data?
20	And at the top, it says, Draft 6.25.00	20	A. We presented the the valid data. And
21	Minutes Cox-II Inhibitors Clinical Safety Committee	21	in every public presentation, we acknowledged that
22	Meeting, 7 June 2000, Doubletree Hotel, O'Hare -	22	this was valid data from a study no longer than six

24

months.



BY MR. SAHAM:

Rosemont, Executive Summary.

23

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Q. Well, I want to turn your attention back

281
to Exhibit 67, the press release we had so much fun with earlier, this one (indicating) probably way at

the bottom somewhere.

MR. HOFF: Which one?

5 MR. SAHAM: It's the press release that we 6 stipulated was the press release, Exhibit 67.

BY MR. SAHAM:

- Q. Here it is, sir.
- A. Thank you.

Q. You would agree with me that Exhibit 67 itself does not make clear that some of the data being referred to, specifically this nonaspirin data, is based on the truncated six-months' results; is that correct, sir?

A. The data that is quoted here references
Dr. Silverstein, very clearly, of what
Dr. Silverstein presented at the American College of
Physicians, which was the 6-month data.

Q. But Exhibit 67, specifically other than the reference to Silverstein presentation, doesn't make clear that the sentence, "Celebrex was also associated with numerically fewer ulcer complications than the NSAID comparators among all patients, and 64 percent fewer of these serious

attachments.

Do you have any reason to believe you didn't receive this and the attachments on or about March 20, 2000?

My question is -- my first question is, do you recognize this?

- A. No, I don't.
- Q. And do you have any reason to believe you didn't receive the -- this document which has been marked as Exhibit 27 on or about March 20th, 2000?
- A. Well -- so I want to distinguish between the e-mail which has my name on -- on it, and then there are attachments which do not match the icons on the e-mail cover page.
- Q. Can I turn your attention to the second to the last page of the document? And that's labeled Updated: CLASS Steering Committee, correct, 2/21/2000?
 - A. Yes.
- Q. And the icon on the front page of the document, the third one is also labeled Steering document 0 -- 000320.

Does that appear to be -- or I'm sorry, it says 000320 CLASS Steering.doc?

events among nonaspirin users -- a statistically significant difference," it does not make clear, within the confines of Exhibit 67, that that conclusion is based on the 6-month data, does it, sir?

A. I am saying that it does reference back to Dr. Silverstein, which was the six months.

And I'd like to just make a comment that if this is true, the other document you gave me where they were commenting, the -- the data safety board, my interpretation is that they were talking about scientific publications. Because the data safety monitoring board is a scientific group, not a group that gets involved in press releases.

So taking the two -- trying to merge the two as one thing, I don't think, is consistent.

Q. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 27.

Could you take a look at that document.
And this is a cover e-mail from Carolyn
Wilson to George Geis and others. Subject,
Notes/Action Items 3/20/00 CLASS Steering Team
Meeting.

Do you see that? And then it has three

A. Yes.

Q. So does that -- well, certainly, I don't know if that's -- here, it says -- it says in the -- in the e-mail there, it says, PR options provided by Mr. Fleming are in 03200 CLASS PR options.

So these are all labeled 0000320. But all I'm getting at is, that last icon says Steering doc, and then the last two pages of Exhibit 27 are also labeled at the top, subject, Updated: CLASS Steering Committee; is that correct?

- A. It's correct, but they don't match.
- Q. But it would be consistent that this is the steering document, or you don't know one way or the other?
- A. I -- if I had received this and somebody passed it to me, I would say, are you sure that this is the attachment, because it doesn't have the same title.
- Q. And you're not disputing -- you just don't know one way or another whether you received this document that is addressed to you as Steven Geis with three attachments?
 - A. I don't recall having seen this.
 - Q. And you -- but you're not disputing that



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	285		287
1	the Bates numbers in the bottom right-hand corner of	1	Q. And those two statements are
2	the document, which bear DEF 0 I'm sorry,	2	contradictory of one other, aren't they, sir?
3	DEFS 01574807 through 817, that those are	3	MR. HOFF: Objection to form.
4	consecutively numbered? You wouldn't dispute me on	4	BY THE WITNESS:
5	that, would you, sir?	5	A. They're contradictory?
6	A. Yes, the the numbers go from 07	6	BY MR. SAHAM:
7	through 17.	7	Q. That if you don't get what you want, you
8	Q. And the second to the last page of the	8	got to attack the design, but if you get what you
9	document, 816, the one that's labeled Updated:	9	want, then you need to justify the design. Isn't
10	CLASS Steering Committee, it lists the required	10	that contradictory to you?
11	attendees, and one of them is George S. Geis.	11	Is that kosher, in your opinion, to to
12	Does that appear to be referring to	12	attack the design if you don't like the results and
13	yourself, sir?	13	to support the design if you like the results?
14	A. I would assume so.	14	MR. HOFF: Objection to form.
15	Q. And if you drop down to the bottom of	15	BY THE WITNESS:
16	this document, which is the Updated CLASS Steering	16	A. So I'm a clinician and a scientist who's
17	Committee, it appears to be notes or minutes, the	17	been in this industry for 20 years. And it is my
18	I'm almost to the bottom of the document. It says,	18	practice and the practice of all the scientists and
19	"Worse case: we have to attack the trial design if	19	clinicians I worked with that you do a study, you
20	we do not see the results we want."	20	analyze the study as predicted, you identify the
21	Do you see that?	21	valid results and you report them, and you report
22	A. I see that.	22	the design as it was conducted.
23	Q. Do you recall having discussions before	23	Whatever is said here, I don't know who
24	the data was unblinded for CLASS that if you didn't	24	wrote it, what they're thinking and what their
		_	
21	286		288
1	<u> </u>	1	· · · · · · · · · · · · · · · · · · ·
	286		288
1	286 get what you want, you were going to attack the	1	288 intent is. But it is not consistent with how I
1 2	286 get what you want, you were going to attack the trial design? A. There were no discussions of that sort that I recall. And I would like to point out,	1 2	288 intent is. But it is not consistent with how I think and I have acted in my career.
1 2 3	286 get what you want, you were going to attack the trial design? A. There were no discussions of that sort	1 2 3	288 intent is. But it is not consistent with how I think and I have acted in my career. BY MR. SAHAM:
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A. I see that.

Do you see that?

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Toll Free: 800.300.1214 Facsimile: 619.239.4117

Q. Do you have any reason to believe you

didn't receive this e-mail in the ordinary course of

	289		291
1	your employment on or about March 21st, 2000, at	1	came out of your custodial electronic files, as
2	Pharmacia?	2	indicated on the last page of the well, actually,
3	A. I don't recognize it.	3	again, this one doesn't have it, but I would
4	Q. Okay. But you you have no reason to	4	indicate there is there was a marked report that
5	believe it wasn't sent to you?	5	showed that it comes from your files.
6	A. Either way, because I don't recognize it.	6	BY THE WITNESS:
7	Q. Okay. And do you know who Mike C. is?	7	A. Is are you asking me
8	A. Mike C.?	8	BY MR. SAHAM:
9	Q. Yeah, that's referred to in the third	9	Q. No, I'm telling you
10	bullet point. It says, "As a contingency in case	10	A a question about it?
11	one arm in the CLASS trial doesn't separate, Mike	11	Q it was well, first, I'm telling you
12	C/RICH M to look into whether we can lump the CLASS	12	it was produced. And I'm asking
13	data together and never show the separate arms."	13	A. Okay.
14	Do you see that?	14	Q. Let me let me say it one thing at a
15	Do you know who Mike C. is?	15	time because we're so I don't torture the
16	A. I don't know who they're referring to.	16	reporter.
17	I'd only be speculating.	17	But I'm I'm representing to you this
18	Q. Well, who do you think Mike C. is?	18	came out of your custodial files. It was produced
19	A. I you know, I really don't know.	19	by defense counsel as having come from your files.
20	Q. Okay. What about Rich M.? Would that be	20	And my question to you is, do you
21	Richard Montwill?	21	recognize it?
22	A. I don't know if that's who they're	22	A. I don't recognize it.
23	referring to. It's just it's the initials, but I	23	Q. Okay. Do you have any reason to believe
24	don't know if that's who they're referring to.	24	this wasn't a document produced from you files?
	290		292
1	Q. And who's Kerstin Schultz?	1	A. Well, the only thing I'll say is, some
2	A. I don't I I know of a Kerstin	2	things you give me, you have a page that's that
3	Schultz who worked at Searle, but I don't know what	3	acknowledges it, and other times you give me
4	her capacity was.	4	documents without that page but you tell me verbally
5	Q. And the subject line of this e-mail is	5	it is.
6	Celebrex War Meeting 3/21 Action Items and an	6	So in the context that I believe what
7	Updated Rolling Agenda; is that correct?	7	you're telling me is true
8	A. That's what this reads.	8	Q. You just don't have any independent
9	Q. Okay. But you just don't recall seeing	9	recollection?
10	this document?	10	A. I don't have any independent
11	A. I that's correct, I don't recall	11	recollection
12	seeing this.	12	Q. Okay. I'd like to
13	Q. But you don't dispute that it was sent to	13	A of seeing this.
14	you?	14	Q turn your attention to page 7 of this
15	A. I don't remember either way.	15	document. And it's a slide that says Contingencies
	•		
16	Q. Okay. I want to show you what's	16	Defend Celebrex Data.
17	Q. Okay. I want to show you what's previously been marked in this litigation as	16 17	Do you see that?
17 18	Q. Okay. I want to show you what's	1	
17	Q. Okay. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 81. Could you please take a look at that	17	Do you see that? A. I do. Q. And then the first bullet point says,
17 18	Q. Okay. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 81. Could you please take a look at that document and tell me if you recognize it?	17 18	Do you see that? A. I do. Q. And then the first bullet point says, "Neither arm separates."
17 18 19 20 21	Q. Okay. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 81. Could you please take a look at that document and tell me if you recognize it? MR. SAHAM: And it's entitled set of slide's	17 18 19	Do you see that? A. I do. Q. And then the first bullet point says, "Neither arm separates." Do you see that?
17 18 19 20 21 22	Q. Okay. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 81. Could you please take a look at that document and tell me if you recognize it? MR. SAHAM: And it's entitled set of slide's entitled Celebrex long-term safety study update	17 18 19 20 21 22	Do you see that? A. I do. Q. And then the first bullet point says, "Neither arm separates." Do you see that? A. I do.
17 18 19 20 21	Q. Okay. I want to show you what's previously been marked in this litigation as Plaintiffs' Exhibit 81. Could you please take a look at that document and tell me if you recognize it? MR. SAHAM: And it's entitled set of slide's	17 18 19 20 21	Do you see that? A. I do. Q. And then the first bullet point says, "Neither arm separates." Do you see that?



Do you recall anyone ever telling you that the CLASS results had to be announced by June of -- of 2000 due to stock materiality?

A. No.

Q. Do you have any understanding as to what that means?

A. No, I don't.

Q. The next bullet point says, "Explain through statistical glitches."

Do you recall being any conversations or discussions regarding how to explain the CLASS results through statistical glitches?

A. I never heard the phrase or the words -- phrase "statistical glitches."

Q. What about any discussions regarding the need to disclose the CLASS data prior to June 2000 due to stock materiality, do you have any recollection of anything like that?

A. None at all.

Q. And you have no idea -- if I'm actually correct -- and you -- I don't know whether you believe me or not, but this document came from your files.

Do you have any understanding why this

of the state of Illinois?

A. No.

Q. And it's correct -- I know we've covered this, but it's correct that you were working on Celebrex and the CLASS trial as part of your employment at Pharmacia?

A. Yes, that's true.

Q. I want to show you what's previously been marked as Plaintiffs' Exhibit 79.

Could you take a look at Plaintiffs' Exhibit 79, please.

MR. SAHAM: And Plaintiffs' Exhibit 79 is an e-mail from George S. Geis dated March 19, 2000, to Kenneth Verburg, subject, CLASS analyses.

And it states -- and then it has an attachment. But the first page of the document, it's a two-page document, an e-mail from you to Ken Verburg.

BY MR. SAHAM:

Q. It states, Ken, here is a list of additional analyses and slides that we might want to do. Let me know what you think. Note: I've included the date and time. I wrote this for version control.

document would be in your files?

A. No. It -- I think one thing to just get the context of what was going around at this time with the Pfizer codevelopment, comarketing group with Searle, there were multiple committees related to Cox-II. Then you have Pharmacia coming in around that time, and other committees were being developed.

The CLASS study was of interest to a lot of people and a lot of committees, and because of my role in overseeing the team working on it, I was copied on tons of e-mails, and tons of attachments were sent to me. So I just want to make sure, for the record, that context is described.

Q. And is it fair to say that those tons of e-mails and tons of reports, et cetera, regarding CLASS that were sent to you, they were sent to you in your business capacity as an employee of Pharmacia; is that correct, sir?

A. Anything that I would have received related to CLASS would have been as an employee of Searle and then Pharmacia.

Q. So they weren't personal -- they weren't sent to you personally in your capacity as a citizen

And then it has an attached -- an icon indicating there's an attached document, and then there's an attached page to it.

Do you recognize this document?

A. Let me take a look.

I have a vague recollection of this, yes.

Q. And is this a document you would have drafted in the ordinary scope of your employment at Pharmacia?

A. Yes.

Q. Okay. And if you look at the second page of the document, the analyses 1 through 4 that you describe, C-S-U-G-Is without ASA over 12 months with stats.

No. 2, C-S-U-G-Is, without ASA over six months with stats.

No. 3, PUBs with and without ASA over 12 months with stats.

And No. 4, PUBs with and without ASA over six months with stats.

If you look at those four, do they match up pretty closely, if not identically, with Tables 1 through 4 in Exhibit 66, the final report, the synopsis on pages 6 and 7 of the Exhibit 66, the



final report that we looked at earlier? It's the big fat document in the pile there.

A. So just like you, I want to be precise.

So number one, clinically significant upper GI events without aspirin over 12 months, now, our terminology at this time was to sort of, shorthand, call the entire study analysis 12 months, okay, to make -- make -- make that clear.

With statistics, that does match with the second portion -- excuse me -- the second portion, the bottom portion of Table 2 in the report. And it -- and it matches in the sense that we're doing the analysis over six months without aspirin.

No. 2 on the list does match Table 1, the second half of it without aspirin with statistics.

No. 3 matches Table 4, PUBs with and without aspirin over 12 months. Again, aspirin as shorthand for the entire study period with stats matches Table 4.

And then No. 4 on the list, PUBs with and without aspirin over six months with stats is -- matches Table 3.

Q. And the next number there says, Kaplan-Meier of withdrawals for any cause.

the data.

And in the -- in -- in that context, trying to understand, were we getting withdrawals in patients who were at risk for developing an ulcer complication. And that was how the initial thinking was beginning of, is there bias developing in this study over time?

So this was in the early stages of understanding the data, asking for analyses that could help us understand it, which ultimately led to, yeah, you were getting not only withdrawals of patients with risk factors, but differential withdrawals in the treatment groups, which rendered the data beyond six months invalid.

- Q. And you're -- you're talking about this two days after the data was unblinded?
 - A. Yes.
- Q. Okay. And the next bullet point under 6 says risk factors for C-S-U-G-Is?
- A. Yes. And that's what I was just talking about as I was describing -- what I was -- when I was looking at early withdrawals.
- Q. Okay. And then dropping down to the bottom of the CLASS plan that you drafted on

What are you communicating there to Dr. Verburg?

A. A Kaplan-Meier plot is a curve that says, on the abscissa, is time; on the ordinate, is some type of outcome that you're interested. And I'm saying, on the ordinate, look at withdrawals.

So you have time on the abscissa, withdrawals on the ordinate. And what they do is they plot over time how many -- what -- how many people or what percent of people have withdrawn over time. And it creates a curve called a Kaplan-Meier curve.

And so what I -- what I -- if I can get back into what I was thinking at the time was the idea to say, were most of the -- where were the withdrawals occurring over time in the study? That was the intent.

Q. And No. 6, that's for early -- to do that for early withdrawals?

A. So No. 6 was so -- again, this is dated March 19th, 2000. We received the -- the -- the -- the -- the first set of analyses from CLASS a couple days before, and this was in the context, as I was describing earlier, of people trying to understand

March 19, 2000, it says Story.

Do you see that? And then there's three -- three points?

A. I do see this.

Q. In the first point you write, Over first six months, numerically, results are as expected:

You wrote that on March 19th, 2000 --

- A. If -- if this is -- if this is exactly what I put together. And, yes, this does look right, but I don't remember exactly this. But, yes, that's what this says.
- Q. Okay. And then the second point says, "However, high ASA use in early drops in the Diclo group confounded the results."

You wrote that on or about March 19, 2000?

- A. It appears that in this document, that's what this says.
- Q. Okay. And this was a document that was created in the ordinary scope of business at Pharmacia?
- A. Assuming that this is the accurate document, yes.
 - Q. Okay. And then the bullet point says,



	301		303
1	Slide of C-S-U-G-Is over six months without ASA use	1	of of of, like, the the percentage of
2	(possibly two panel left side with ASA data, right	2	complications that has occurred.
3	side without ASA)?	3	Q. But Kaplan-Meier rates or lines track
4	A. Yes.	4	event rates over time? I mean, is that an overly
5	Q. And then the next bullet point says,	5	simplistic way to say it?
6	Slide of early withdrawals due to GI symptoms (shows	6	A. It's overly simplistic, but I don't think
7	much earlier drops in Diclo)?	7	it's grossly inaccurate.
8	A. Yes.	8	Q. And and then this slide is doing the
9	Q. And then No. 3, it says, Over second six	9	same thing, it's it's tracking crude event rates
10	months, patients in NSAID groups who are at risk of	10	over time?
11	CSUGI have pulled out, therefore all Kaprin	11	A. Yes, it is.
12	Kaplan-Meier lines merge.	12	Q. And it's showing that there's less of a
13	Do you see that?	13	difference over time at the 12 months for the NSAIDs
14	A. I do.	14	as compared to Celebrex as there was at 6 months?
15	Q. And is that when we were looking at	15	A. Yes, in this portion that we consider the
16	earlier, we looked at sort of a big PowerPoint slide	16	invalid portion of the study.
17	where the lines were coming together or the	17	MR. SAHAM: We got to change the tape.
18	Celebrex versus the NSAIDs were becoming closer at	18	Hopefully the last time we have to change the tape,
19	12 months as compared to 6 months.	19	but we need to take a break.
20	Is that a a simplistic rend	20	THE VIDEOGRAPHER: Going off the video record
21	rend rendering of a Kaplan Kaplan-Meier	21	at 4:26 p.m.
22	line?	22	This is the end of Tape No. 5.
23	A. That	23	(WHEREUPON, a short recess was
24	MR. HOFF: Objection to form.	24	had.)
	302		304
1	BY THE WITNESS:	1	THE VIDEOGRAPHER: Going back on the video
2	A. The I'd have to look exactly at the	2	record at 4:40 p.m.
3	graph. But this was as you in the couple days	3	This is the beginning of Tape No. 6.
4	after we received the data and we were trying to	4	BY MR. SAHAM:
5	understand the data, this was early attempts to go	1 -	DT WIR. OATIAW.
	understand the data, this was early attempts to go	5	Q. Showing you what's been previously marked
6	through the rationale as to what was and was not the	5 6	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's
6 7	through the rationale as to what was and was not the valid set of data. And that's what we were what	5 6 7	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail
7 8	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here.	5 6 7 8	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page
7	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here. It wasn't the final rendition of our	5 6 7 8 9	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page bears Bates number same, but last two are 43. And
7 8 9 10	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here. It wasn't the final rendition of our understanding of the data, but an early one, in	5 6 7 8 9	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page bears Bates number same, but last two are 43. And it's an attachment labeled CLASS, March 20, 2000,
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here. It wasn't the final rendition of our understanding of the data, but an early one, in asking for analyses to help understand the data. BY MR. SAHAM: Q. If I could ask you to grab 250, the bottom line, and look again at slide 43, Complication Rates (All) Over 12 Months. Are those lines Kaplan-Meier lines? A. These precisely are not Kaplan-Meier lines, because Kaplan-Meier lines do not record crude rates like this. Q. What do Kaplan-Meier lines do that's different than this slide?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page bears Bates number same, but last two are 43. And it's an attachment labeled CLASS, March 20, 2000, CLASS Analyses - Other considerations. The e-mail is from George Geis George S. Geis, March 21, 2000, to James Lefkowith. And it cc's various other individuals on your team. And I'd ask you if you recognize this document which has been marked as Plaintiffs' Exhibit 80? A. So the question is? Q. Do you recognize it? A. I do vaguely recognize it. Q. And is this a document that you drafted
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here. It wasn't the final rendition of our understanding of the data, but an early one, in asking for analyses to help understand the data. BY MR. SAHAM: Q. If I could ask you to grab 250, the bottom line, and look again at slide 43, Complication Rates (All) Over 12 Months. Are those lines Kaplan-Meier lines? A. These precisely are not Kaplan-Meier lines, because Kaplan-Meier lines do not record crude rates like this. Q. What do Kaplan-Meier lines do that's different than this slide? A. The ordinate I'd have to pull one out	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page bears Bates number same, but last two are 43. And it's an attachment labeled CLASS, March 20, 2000, CLASS Analyses - Other considerations. The e-mail is from George Geis George S. Geis, March 21, 2000, to James Lefkowith. And it cc's various other individuals on your team. And I'd ask you if you recognize this document which has been marked as Plaintiffs' Exhibit 80? A. So the question is? Q. Do you recognize it? A. I do vaguely recognize it. Q. And is this a document that you drafted at your employment at Pharmacia on or about
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	through the rationale as to what was and was not the valid set of data. And that's what we were what I was attempting to do here. It wasn't the final rendition of our understanding of the data, but an early one, in asking for analyses to help understand the data. BY MR. SAHAM: Q. If I could ask you to grab 250, the bottom line, and look again at slide 43, Complication Rates (All) Over 12 Months. Are those lines Kaplan-Meier lines? A. These precisely are not Kaplan-Meier lines, because Kaplan-Meier lines do not record crude rates like this. Q. What do Kaplan-Meier lines do that's different than this slide?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Showing you what's been previously marked in this litigation as Plaintiffs' Exhibit 80. It's a two-page document. The first page is an e-mail bearing Bates number DEFS 00886542. The second page bears Bates number same, but last two are 43. And it's an attachment labeled CLASS, March 20, 2000, CLASS Analyses - Other considerations. The e-mail is from George Geis George S. Geis, March 21, 2000, to James Lefkowith. And it cc's various other individuals on your team. And I'd ask you if you recognize this document which has been marked as Plaintiffs' Exhibit 80? A. So the question is? Q. Do you recognize it? A. I do vaguely recognize it. Q. And is this a document that you drafted



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305

- Q. And you did so in the ordinary course of your employment there?
 - A. It's -- it's -- yes, I did.
- Q. Okay. And you wrote to Dr. Lefkowith and your other team members, "As you heard last evening, Mike and I reviewed the available data and he believes we have a good story; although, not one as simple as we had hoped."

Is that Mike referring to Mike Friedman, vour boss?

A. It is.

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- Q. And when you say, have a good story, but not as simple -- simple one as you -- you would have hoped, what -- what did you mean in writing that?
- A. So last evening would have been Monday, March 20th, 2000, which would have been, I guess, two or three days after we had received the first set of data from the CLASS trial.

And as I discussed earlier, which was our common practice, people sort of sat down, went off site and focused on how to understand the data, how -- and how -- what other analyses might be helpful in understanding the data as it was originally presented.

306

The team, during that 48 hours, was coming to an appreciation of understanding the confounders of the study and understanding why the first six months was the valid set and data beyond that were complications and symptomatic ulcers was not valid.

I presented it to Mike Friedman on the evening of Monday, March 20th. So it was the first time one of us had a chance to, in our terms, and the language we used was, to tell the story, which is, here's -- was the study objectives, here was the design, here's the results, here's how we understand the data, here's our thoughts on what is the valid set, which wasn't uncommon.

The first time you present it, you think it's pretty simple and clear, and your first audience says it's not as simple. It's not that simple. It's not that clear.

So that's not unexpected in the context of presenting the first set of data to -- to someone.

Also, I'd like to point out, Mike Friedman was new to Searle in a matter of months, and his appreciation of all of our understanding of

307

Celebrex, the understanding of the design of the 2 trial, the interactions with the FDA, he was new to 3 it all.

So his -- he did not have the history to understand our presentation like some other people who were involved historically would be. So he had some questions. He had some recommendations. He asked for us to consider other analyses.

And this e-mail was to honor his questions, honor his request for analyses for the team to consider to get a -- the best understanding possible of the CLASS data.

- Q. When did Dr. Silverstein and Dr. Simon and the other external authors receive the data?
- A. So in terms of receive the data, no one, as I recall, received it. What we did is -- and I believe the date was around March 31st -- we had a meeting with the -- if you will, the external authors at a hotel where we presented the data and presented all the various analyses that we had and our interpretation and understanding of the data.

So in the sense, did they receive it? No one got hard copies of anything. No one electronically was sent anything. So that was

308

around March 31st.

As I recall, all the external authors were there with the exception of Fred Silverstein. And Fred Silverstein, I went through things by phone with him around the same time period.

- Q. Okay. When you say no one received it, none of the external authors received the data, but you and the folks at Pharmacia internally, you've had the data, correct?
 - A. Yes, that's correct.
- Q. And then you summarized it and presented -- presented it to the external authors?
- A. And there were -- so -- so we summarized, but we also presented on overheads, some of the raw data that would have been in appendices of -ultimately be in the appendices of the report.

So we had available to them whatever they wanted to see after we presented it. If they wanted to drill down and see more, we were available to do that.

So the idea, which is consistent with our practices, were, we put our best thinking together internally, then we bring it forward to external people who are experts and say, here's what we



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think. What do you think? Do you need more 2 information? And if you do, let's try to get it to you.

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Q. And one of the things you brought forward to them on March 31st is that you thought the -- the data may be biased after six months due to the informative censoring, if you will?

A. We -- we brought forward data in the concept that there was differential withdrawal in the treatment groups due to patients most likely to get an ulcer complication. We brought that forward and showed it to them and showed that we think it -its maximum effect was after the first six months. We brought that forward.

The concept of informative censoring, in the phrase, I don't believe, was being used then. Informative censoring was not a term that I was familiar with until after the CLASS data began to be reviewed in a lot more detail.

So informative censoring, I -- was not out there. But the concept of differential withdrawal of susceptible patients was presented to the external folks.

Q. So the concept of bias and differential

311

A. Yeah. We wanted to go back and -- I don't think we said create a slide. It was base -it is basically what we're calling analyses and other considerations.

No. 1 isn't -- it was more about, go back to the protocol and statistical analysis plan and make -- make it clear what was defined as primary, secondary, exploratory, if those terms were used.

- Q. And we know from looking at the protocol that was Exhibit 77, that the primary -- the coprimary endpoints were the complicated ulcers?
 - A. That's correct.
- And -- and there was no description that those complicated ulcers would be looked at at any point short of the entire study in the protocol?

That's a bad question.

The protocol didn't say, we're going to look at these complicated ulcers at six months and for the entire study because it was a time-to-completion study?

MR. HOFF: Objection to form.

BY MR. SAHAM:

Q. Or an event-to-completion or however you described it.

310

withdrawal, that was presented by internal Pharmacia 1 2 folks, including yourself, to the external authors 3 on or about March 31st, 2000?

A. That's correct.

Q. And -- and -- and then it was also around that same time you communicated that concept to Dr. Silverstein over the phone?

A. Around that time, yes. I don't remember exactly the date.

Q. Okay. And looking back to the CLASS -the -- to this document that's been marked as Exhibit 80 that you drafted, the second page where it says, "CLASS Analyses - Other considerations," No. 1 says, "As per the protocol, what were the defined primary, secondary, exploratory, et cetera, analyses?"

Do you see that?

Q. And was that a question Dr. Friedman had for you, like, what's the secondary, primary and exploratory analyses?

A. Yes, it was.

Q. And you wanted to create a slide that answered that for him?

312

That's a bad question.

My -- my question to you is --

MR. WEISS: That's two in a row.

MR. SAHAM: There's, like, six bad questions pending, so I'll ask a seventh.

MR. HOFF: You've got -- you've got one -- it's three strikes, you're out, I believe, in California, right?

BY MR. SAHAM:

Q. But -- but Dr. Geis, it's -- it's after -- the protocol doesn't lay out that you're going to look at some subset of the data at six months for those primary endpoints; is that correct,

A. Well --

MR. HOFF: I just want you to read it back because I want to make sure I understand what the question is.

MR. SAHAM: But -- but the new question.

20 MR. HOFF: The current one.

(WHEREUPON, the record was read by

the reporter.)

MR. HOFF: Objection to form.

BY THE WITNESS:



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1	A. The protocol outlines that this is	1 A. Yes.
2	going this is a time-to-event study and that	2 Q. And and why'd you write that?
3	crude rates would be analyzed and Kaplan-Meier plots	3 A. Well, in the con again, although I
4	would be run.	4 remember writing this e-mail, I don't expressly
5	When they run the Kaplan-Meier plots,	5 remember exactly each one of these, but this was a
6	they also run tables cutting the data at	6 list that Mike Friedman had asked for. And in the
7	three months, six months. And I think there's a few	7 spirit of it of honoring his request for
8	others, and you'll find those tables in the report.	8 additional analyses, we gave we were going to do
9	BY MR. SAHAM:	9 this cut.
10	Q. But the protocol that we were looking at	But as you see, earlier, I said you may
11	earlier didn't state that it was going to be looked	11 have done this already.
12	at in six months	So as the team was working and we and
13	MR. HOFF: Objection to form.	we had, before we spoke with Friedman, come to the
14	BY MR. SAHAM:	understanding that there was bias which invalidated
15	Q is that correct, sir?	the data after six months. It's highly highly
16	A. So the precise wording of six months in	likely that we had the stats for six months before I
17	the analysis plan, I do not believe is there. But	17 wrote this.
18	the Kaplan-Meier of time-to-event, as I understand	18 Q. And in No. 11, you write, "Outcomes of
19	from the statisticians, allows for cuts anywhere	19 POBs and Ulcers"?
20	between the first event and the last event of the	20 A. Yes.
21	study.	Q. Okay. I want to turn your attention to
22	Q. And is that something you learned in your	what I'm marking as Plaintiffs' Exhibit 270.
23	preparation to testify about the topic about	23
24	informative censoring? You spoke to statisticians	24
	314	316
1	and they told you that the Kaplan-Meier	1 (WHEREUPON, a certain document was
2	time-to-event thing would roll out for six months?	2 marked Plaintiffs' Deposition
3	A. No. This this goes back to when	3 Exhibit No. 270, for identification,
4	this when we were first dealing with the data and	4 as of 12/10/2010.)
5	trying to understand the data, we consulted	5 BY MR. SAHAM:
6	extensively with the statisticians of, what is it	6 Q. Could you please take a look at
7	what are appropriate analyses, and is it appropriate	7 Plaintiffs' Exhibit 270.
8	that we can identify and use the 6-month data as the	8 MR. SAHAM: And for the record, Plaintiffs'
9	valid data? And they unanimously agreed that that	9 Exhibit 270 is a one-page document bearing Bates
10	was consistent with the whole analysis of	number DEFS 00113940. And, again, this one actually
11	time-to-event.	has the attachment saying it came from your
12	Q. But the protocol doesn't lay out that	12 custodial files.
13	you're going to do an analysis at six months,	13 BY MR. SAHAM:
14	correct?	14 Q. And I'd ask you if you recognize this
15	MR. HOFF: Objection to form.	document which says, Draft 11.23.99, JAMA editorial,
16	BY THE WITNESS:	16 Message Points?
17	A. The precise wording stating six months, I	17 A. I don't I don't recall seeing this.
18	do not believe, is in the protocol, but the	18 Q. But you don't dispute this came from your

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custodial files?

A. I don't --

Q. Sorry.

Q. Okay. In looking --

The bullet point -- I'm looking at the

A. -- either way.



for earlier cuts is there.

BY MR. SAHAM:

time-to-event analysis is, which they tell me allows

Q. Okay. Looking back at Exhibit No. 80,

you write number -- No. 8 on the second page, you

write, "Stats for 6 months (POBs and PUBs) only"?

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1 sixth bullet point under JAMA editorial Message 1 A. I believe you do.	
2 Points. It says, "You can't predict who will and 2 Q. Okay. And you didn't o	do that?
3 won't have a bleed - and especially not with 3 A. I did not.	
4 chronic, lifetime use. Only 20 percent of people 4 Q. I want to show you who	nat I'm marking as
5 with NSAID-induced bleeds ever have symptoms." 5 Plaintiffs' Exhibit 271.	
6 Do you agree with that statement? 6 Could you please take a	a look at
7 A. So so first of all, I just want to 7 Plaintiffs' Exhibit 271. And this	
8 make sure, I don't know who wrote this. And, again, 8 Bates numbers DEFS 0053694	
9 there were a lot of people writing things and 9 And it's a two-page e-m	· ·
10 copying me on them, and some were scientists and 10 attachment and then and the	
physicians and some were people within the 11 Thomas Krol to numerous peo	
12 organization. 12 Verburg, Wahba, W-a-h-b-a, a	=
13 So I don't know that that's true. I'd 13 Do you know who this T	-
14 have to look at the data to refresh my memory about 14 is?	ogo raro. rono
15 20 percent 15 A. I don't recall the name	at all.
16 Q. You just don't know whether it's accurate 16 Q. Okay. And do you have	
17 or not? 17 believe you didn't receive this of	•
18 A. No, I don't. 18 May 26, 2000?	
19 Q. Okay. I want to show you what I'm 19 A. I don't remember eithe	er wav.
20 marking as Plaintiffs' Exhibit 271. 20 Q. Okay. And I'd like to re	•
21 (WHEREUPON, a certain document was 21 attention to the last three Bates	· ·
22 marked Plaintiffs' Deposition 22 of in the middle of the docume	•
23 Exhibit No. 271, for identification, 23 table, and under it, it says, "GI	
24 as of 12/10/2010.) 24 nonetheless poor predictors of	
318 320	·
1 BY MR. SAHAM: 1 Do you see that?	
2 Q. And, again, you're not a a 2 A. No. Let me read this	S.
3 gastroenterologist, correct? 3 MR. HOFF: What page a	are vou on?
4 A. I was I was not trained in 4 MR. SAHAM: It's 950. Th	aro you orr.
T = A. TWAS TWAS HOLLIAINEU III 4 IVIK. SAMAIVI. ILS 950. TI	here's a table in there
5 gastroenterology; however, I was trained in surgery 5 and then there's some text.	•
5 gastroenterology; however, I was trained in surgery 5 and then there's some text.	•
5 gastroenterology; however, I was trained in surgery 5 and then there's some text.	here's a table in there
5 gastroenterology; however, I was trained in surgery 6 and so dealt with people with ulcers that perforated 5 and then there's some text. 6 BY THE WITNESS:	here's a table in there
5 gastroenterology; however, I was trained in surgery 6 and so dealt with people with ulcers that perforated 7 and bleeding. 5 and then there's some text. 6 BY THE WITNESS: 7 A. I see what's written h	here's a table in there
5 gastroenterology; however, I was trained in surgery 6 and so dealt with people with ulcers that perforated 7 and bleeding. 8 Q. Right. And I understand you're a medical 5 and then there's some text. 6 BY THE WITNESS: 7 A. I see what's written h 8 BY MR. SAHAM:	here's a table in there here, yes.
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5 gastroenterology; however, I was trained in surgery 6 and so dealt with people with ulcers that perforated 7 and bleeding. 8 Q. Right. And I understand you're a medical 9 doctor. 9 Q. Okay. So I'm just real 10 A. I am.	there's a table in there there, yes. adding you the enonetheless poor
gastroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and bleeding. Q. Right. And I understand you're a medical doctor. A. I am. A. I am. Q. And you did a residency? Did you and then there's some text. BY THE WITNESS: A. I see what's written has been made and the perforated and the there's some text. BY THE WITNESS: A. I see what's written has been made and the perforated and the perforated by THE WITNESS: A. I see what's written has been made and the perforated and the there's some text. BY THE WITNESS: A. I see what's written has been made and the perforated and then there's some text. BY THE WITNESS: A. I see what's written has been made and the perforated and the perforated and the perforated by THE WITNESS: A. I see what's written has been made and the perforated and the perforated and the perforated and the perforated and the perforated and the perforated by THE WITNESS: A. I see what's written has been made and the perforated and the perforate and the perforate and the perforated and the perforate and the perforate and the perforated and the perforate	there's a table in there there, yes. adding you the enonetheless poor
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gastroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and bleeding. Registroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and bleeding. Registroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and she will be yellows. Registroenter's some text. BY THE WITNESS: A. I see what's written has be yellows. So I'm just read sentence, "GI symptoms are predictors of serious toxicity." Do you believe that's and statement? A. No, I do not. I I just out, I don't know what this is guys were writing, but it looks out, I don't know what this is guys were writing, but it looks on the physiology. Registroenter's and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I see what's written has bey made and then there's some text. BY THE WITNESS: A. I don't see that 's a sentence, "GI symptoms are predictors of serious toxicity." Do you believe that's a statement? A. No, I do not. I I just out, I don't know what this is guys were writing, but it looks out, I don't k	there's a table in there there, yes. rading you the enonetheless poor " an accurate st want to point and and what these as like who whoever ome data and making - no recollection of doing it. But
gastroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and bleeding. Q. Right. And I understand you're a medical doctor. A. I am. Q. And you did a residency? Did you complete a residency? A. I did not. Q. You did part of a residency? A. I did. Q. And then you went into work for Pharmacia? A. Correct. I also have a Ph.D. in physiology. Q. Right. And I was trained in surgery 5 and then there's some text. BY THE WITNESS: A. I see what's written h BY MR. SAHAM: 9 Q. Okay. So I'm just read sentence, "GI symptoms are predictors of serious toxicity." 10 predictors of serious toxicity. To you believe that's a statement? A. No, I do not. I I just out, I don't know what this is guys were writing, but it looks out, I don't know what this is conclusions, and I have no what he's doing or why he's conclusions. Q. Right. And and and my question is, Do you know	there's a table in there there, yes. rading you the enonetheless poor " an accurate st want to point and and what these as like who whoever ame data and making - no recollection of doing it. But g that came that
gastroenterology; however, I was trained in surgery and so dealt with people with ulcers that perforated and so dealt with people with ulcers that perforated and bleeding. Q. Right. And I understand you're a medical doctor. A. I see what's written h BY MR. SAHAM: Q. Okay. So I'm just rea sentence, "GI symptoms are predictors of serious toxicity." Complete a residency? Did you complete a residency? A. I did not. Q. You did part of a residency? A. I did. Q. And then you went into work for Pharmacia? A. Correct. I also have a Ph.D. in physiology. Q. Okay. So I'm just rea sentence, "GI symptoms are predictors of serious toxicity." Do you believe that's a statement? A. No, I do not. I I jus out, I don't know what this is guys were writing, but it looks Tom Krol is, is is taking sor conclusions, and I have no what he's doing or why he's or Q. Do you know a gastroenterologist, that's like a specialization, A this isn't something	there's a table in there there, yes. adding you the enonetheless poor ." an accurate st want to point and and what these as like who whoever ame data and making - no recollection of doing it. But g that came that of the medical or the



A. Jan Markind, as I recall, was a Searle employee, and she was a medical writer for what we call medical affairs, which was connected to the commercial side of the organization.

Q. I want to show you what I'm marking as Plaintiffs' Exhibit 272.

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 272, for identification, as of 12/10/2010.)

THE WITNESS: Can I -- can I go back and just make a -- I just want to clarify a comment about, symptoms are predictors -- are poor predictors. I just want to be careful with the word "predict." And in my answer is that there is a correlation between symptoms and -- and -- and clinically significant events.

That's what I mean when I disagree with it. There is a correlation, but it is not a one-to-one association or -- of symptoms versus complications. I just wanted to clarify that. BY MR. SAHAM:

Q. Thank you, sir.

Study Media Coverage 4/17.

I want to show you Plaintiffs'

Q. Okay. And specifically, I want to refer you to the bottom of -- in the bottom right-hand corner, it says page 5, and it's a Bloomberg April 17th, 2000 article by Michelle Fay Cortez entitled Pharmacia's, Pfizer -- Pharmacia's, Pfizer Celebrex Drug Found to Be Safer.

Do you see that?

A. I see that.

Q. And then you turn over to the next page, which is the -- most of the body of this April 17th, 2000 article, and you go to the third full paragraph on page 6. It says, "'We really believe the data are sufficiently compelling to warrant discussions with the FDA,' said Dr. Steve Geis, vice president of the arthritis clinical program at Pharmacia's Searle unit. He wouldn't predict if the results were strong enough to get the warning label revised."

Does this refresh your recollection that you spoke to the press on or about April 17th, 2000, regarding the CLASS trial?

A. No, it doesn't.

Q. Do you have any reason to believe that this Bloomberg article is not an article that was

1 Exhibit 272.

1 2

MR. SAHAM: And for the record, Plaintiffs' 272 bears Bates numbers DEFS 00362813 through 825. And the front page of the document is an e-mail, at least the top e-mail, from George S. Geis, dated April 18th, 2000, to Kenneth Verburg, Richard Hubbard and David Recker. And the subject is CLASS

And below that, there's an e-mail from
Diana Smith dated April 17, 2000, subject, CLASS
Study Media Coverage, that went to you that then you
forwarded to those gentlemen.

13 BY MR. SAHAM:

Q. And I'd ask you, first off, if you recognize either -- or if you recognize this document which consists of the e-mail and the synopsis of CLASS Study Media Coverage, April 17th, 2000?

A. I don't recall this e-mail, neither the e-mail nor the attachment.

Q. But you don't have any reason to believe you didn't receive this in the ordinary scope of your employment at Pharmacia?

A. I don't recall it either way.

published by Michelle Fay Cortez on or aboutApril 17th, 2000?

A. In the sense that this is truly her article, I have no reason to believe it's not accurate.

Q. Okay. So you wouldn't -- you wouldn't testify today that you didn't speak to the press on April 17th --

A. Correct, I don't remember.

Q. Okay. I want to show you what I'm marking as Plaintiffs' Exhibit 273.

(WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 273, for identification, as of 12/10/2010.)

BY MR. SAHAM:

Q. And, again, this is one of those documents where, unfortunately, I didn't bring the little page on the end, but I would represent to you that this came from your custodial files. You can take that representation for whatever it's worth.

And this document, Exhibit 273, bears
Bates numbers DEFS 01015928 through 5935, and it's labeled 4/16, 2000, Draft, Q&A Document/CLASS Trial



	325		327
,			
1	Results, For Internal Use Only, Not for External	1	A. I do.
2	Distribution.	2	Q. The the second paragraph there says,
3	I'd ask you if you recognize this	3	"According to FDA, should Celebrex have exhibited
4	document?	4	superiority over D (which it did not), then it would
5	A. I don't recall this document.	5	have been valid to look into the contribution of
6	Q. Okay. Do you recall seeing similar	6	informative censoring. However, in the current
7	documents like this during your time at Pharmacia?	7	situation where a negative result was observed, IC
8	A. I have I've seen documents that look	8	could only have been attributed if it was well
9	like this where they have Q and As, but not	9	accepted in the particular field."
10	routinely.	10	To your recollection, does that
11	Q. I want to show you what I'm marking as	11	accurately reflect Dr. Goldkind and Dr. Hong Lu, the
12	Plaintiffs' Exhibit 274.	12	FDA medical reviewer and statistical reviewer's
13	(WHEREUPON, a certain document was	13	opinion regarding the, quote-unquote, informative
14	marked Plaintiffs' Deposition	14	censoring explanation?
15	Exhibit No. 274, for identification,	15	A. Let me read this again.
16	as of 12/10/2010.)	16	I don't understand what this really says,
17	MR. SAHAM: Ask you to take a look at	17	and I don't remember what Dr. Goldkind and Dr. Lu
18	Plaintiffs' Exhibit 274, which for the record, bears	18	presented at the advisory meeting. In a way, this
19	Bates numbers DEFS 00536852 through 6856.	19	doesn't even make sense to me, but
20	BY MR. SAHAM:	20	Q. Do you remember Winifred Begley?
21	 Q. I'd ask you if you recognize this 	21	A. I do.
22	document?	22	Q. And was she, like, a regulatory affairs
23	A. Could you repeat your question?	23	person?
24	Q. I asked you if you recognize this	24	A. She was a a regulatory affairs person
	326		328
1	326 document?	1	328 at Searle.
1 2		1 2	
	document?		at Searle.
2	document? A. I do not.	2	at Searle. Q. And she attended the meetings with the
2	document? A. I do not. Q. Okay. But you're listed as having	2 3	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting?
2 3 4	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in	2 3 4	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're
2 3 4 5	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting?	2 3 4 5	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in
2 3 4 5 6	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes.	2 3 4 5 6	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which
2 3 4 5 6 7	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to	2 3 4 5 6 7	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to.
2 3 4 5 6 7 8	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu?	2 3 4 5 6 7 8	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting?
2 3 4 5 6 7 8	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes.	2 3 4 5 6 7 8	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did.
2 3 4 5 6 7 8 9	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary	2 3 4 5 6 7 8 9	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as
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2 3 4 5 6 7 8 9 10 11	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary of what took place at that meeting? A. It looks like somebody wrote this up, but I don't know whom.	2 3 4 5 6 7 8 9 10 11	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as Exhibit 275. (WHEREUPON, a certain document was
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary of what took place at that meeting? A. It looks like somebody wrote this up, but I don't know whom. Q. Again, I would represent to you that this was found in your files. A. Right. But, again, it doesn't say who	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as Exhibit 275. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 275, for identification, as of 12/10/2010.) BY MR. SAHAM:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary of what took place at that meeting? A. It looks like somebody wrote this up, but I don't know whom. Q. Again, I would represent to you that this was found in your files. A. Right. But, again, it doesn't say who wrote it Q. Correct. A and when it was written.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as Exhibit 275. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 275, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. I'm going to show you what I'm marking as
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary of what took place at that meeting? A. It looks like somebody wrote this up, but I don't know whom. Q. Again, I would represent to you that this was found in your files. A. Right. But, again, it doesn't say who wrote it Q. Correct. A and when it was written. Q. And I'd like to turn your attention to the last three Bates numbers 855, the second to last page under the label of Informative Censoring.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as Exhibit 275. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 275, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. I'm going to show you what I'm marking as Plaintiffs' Exhibit 275. Could you please take a look at that document, sir. MR. SAHAM: And for the record, Plaintiffs' Exhibit 275 is a two-page e-mail chain bearing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	document? A. I do not. Q. Okay. But you're listed as having attended a January 26 meeting with the FDA in preparation for the advisory committee meeting? A. Yes. Q. And is that the meeting you referred to earlier with Dr. Goldkind and perhaps Dr. Hong Lu? A. I believe so, yes. Q. Okay. And this appears to be a summary of what took place at that meeting? A. It looks like somebody wrote this up, but I don't know whom. Q. Again, I would represent to you that this was found in your files. A. Right. But, again, it doesn't say who wrote it Q. Correct. A and when it was written. Q. And I'd like to turn your attention to the last three Bates numbers 855, the second to last	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	at Searle. Q. And she attended the meetings with the FDA leading up to the advisory committee meeting? A. It depends on which meetings you're talking about because there were several people in regulatory. So I'd have to know specifically which meeting we're referring to. Q. Did she attend that January 26th meeting? A. According to this, she did. Q. I want to show you what I'm marking as Exhibit 275. (WHEREUPON, a certain document was marked Plaintiffs' Deposition Exhibit No. 275, for identification, as of 12/10/2010.) BY MR. SAHAM: Q. I'm going to show you what I'm marking as Plaintiffs' Exhibit 275. Could you please take a look at that document, sir. MR. SAHAM: And for the record, Plaintiffs'



the -- and so is the bottom e-mail on the page is also drafted by you. And then the middle e-mail was drafted by Dr. Lefkowith on September 20, 2001, and was sent to you and Dr. Verburg. And the subject is ACP GI abstract draft.

6 BY MR. SAHAM:

Q. And I ask if you recognize this e-mail chain?

I ask if you recognize this e-mail chain?

A. I do not.

Q. Okay. But you don't dispute that you received and sent the e-mails as indicated?

A. I -- I just don't remember these e-mails.

Q. Okay. And Dr. Lefkowith writes to you,

"The question then arises why we didn't go with the longer-term data."

Do you understand what he's talking about there?

A. Where exactly --

Q. Well, I'm in the middle -- his e-mail in the middle. It says, "I can revise the abstract to show both analyses, but I am concerned that simply showing that the 6-month and longer-term data are not different isn't a compelling presentation. The

or I'm sorry, G.D. Searle's business operation?

A. It was -- this was the practice to do a separate statistical analysis plan for protocols.

Q. And like a protocol, it was submitted to the FDA?

A. Yes.

Q. Okay. And it would be done so in the ordinary scope of business at G.D. Searle?

A. Yes, it would have.

Q. Okay. I want to show you what I'm marking as -- or what's previously been marked in this case as Plaintiffs' Exhibit 227.

Ask you if you recognize this document?

A. Yes, I do.

Q. And this is the notice of 30(b)(6) deposition, which you're appearing, in part, today to testify on certain topics; is that correct?

A. Yes, it is.

Q. And with respect to Topic 2, issuance of the press release, including, but not limited to, the process for an individuals involved with drafting, editing and approving the press release, you're testifying on behalf of Pharmacia for Topic 2?

1 question then arises why we didn't go with the 2 longer-term data."

Do you see that?

A. I do see that.

Q. Do you know what he's talking about?

A. I don't.

Q. And he's dead, unfortunately, right?

A. Unfortunately, correct.

Q. I want to show you what's previously been marked as Plaintiffs' Exhibit 110.

Could you take a look at Plaintiffs' Exhibit 110.

And all I want to ask you about this -you've referred before to this statistical analysis
plan, and this document, Exhibit 110 is labeled a
plan of the final analyses for Celecoxib - Incidents
of clinically significant UGI adverse events versus
Ibuprofen and Diclofenac in OA or RA, and the
documentation date is December 7th, 1999.

Is this the statistical analysis plan you were referring to earlier?

A. It appears so, yes.

Q. Okay. And this is a document that would have been created in the ordinary scope of Parm- -- A. On page 3?

Q. Correct.

A. Yes, I am.

Q. And with respect to Topic 3, the decision to analyze and publish results concerning the first six months of data obtained from the CLASS study, including, without limitation, identification of those individuals who made the decision, when the decision was made and any documents or minutes memorializing the decision, you're testifying on behalf of defendant Pharmacia for that topic, as well?

A. Yes, I am.

Q. And with respect to Topic 4, the individuals responsible for analyzing impact of informative censoring or physiological adaptation on the CLASS results and any analyses undertaken, you're testifying on behalf of Pharmacia for Topic 4, as well?

A. Yes.

Q. And with respect to Topic 5, drafting, review and approval of any presentation made to the American College of Physicians on or about April 17th, 2000, including, without limitation,



333 335 those individuals involved in the drafting, review STATE OF ILLINOIS) 1 1) SS: 2 and approval process and any documents or minutes 2 COUNTY OF DU PAGE) 3 memorializing the process, you're testifying on 3 behalf of defendant Pharmacia for Topic 5, as well? 4 I, Nicole Scola, a Notary Public within 5 and for the County of DuPage State of Illinois, and 5 A. Yes. 6 a Certified Shorthand Reporter of said state, do Q. Any other topics that you understand 6 7 7 hereby certify: you're testifying on behalf of Pharmacia for? 8 A. I believe, as I understand it, those are 8 That previous to the commencement of the 9 9 the ones. examination of the witness, the witness was duly 10 10 sworn to testify the whole truth concerning the Q. Okay. And we're virtually out of time 11 for the deposition today, but I would like to ask 11 matters herein; 12 12 you, your -- your lawyers will get a copy of the That the foregoing deposition transcript 13 transcript and then send it to you, and will you 13 was reported stenographically by me, was thereafter 14 14 reduced to typewriting under my personal direction review it and make corrections and send whatever 15 corrections or additions you think are appropriate 15 and constitutes a true record of the testimony given 16 16 and the proceedings had; on the errata page back to your counsel in a timely 17 17 That the said deposition was taken before fashion? 18 A. Yes, I will. 18 me at the time and place specified; 19 MR. SAHAM: Okay. With that, I --19 That I am not a relative or employee or 20 20 MR. WEISS: Can I ask just one follow-up attorney or counsel, nor a relative or employee of 21 21 such attorney or counsel for any of the parties 22 MR. SAHAM: Well, then I might have more 22 hereto, nor interested directly or indirectly in the 23 23 questions. outcome of this action. 24 24 IN WITNESS WHEREOF, I do hereunto set my 334 336 **EXAMINATION** 1 1 hand and affix my seal of office at Chicago, 2 BY MR. WEISS: 2 Illinois, this 24th day of December, 2010. 3 Q. Dr. Geis, earlier today you were asked 3 4 some questions about whether or not -- in connection 4 5 with the 30(b)(6) notice and the topic regarding the 5 Notary Public, DuPage 6 press release, whether you had reviewed the drafts б County, Illinois. 7 of the press release -- the press releases in 7 My commission expires 08/30/2014. 8 preparation for your deposition, and you testified 8 9 that you had not; is that correct? 9 10 A. You know, when I think back on that, I 10 C.S.R. Certificate No. 084-004524. 11 saw them but didn't explicitly go through each one h 1 12 and read each one. But I saw the drafts and that 12 13 there were drafts, so I'm aware there were drafts 13 14 before the final. 14 15 MR. SAHAM: I don't have any additional 15 16 questions at this time. 16 17 THE VIDEOGRAPHER: That concludes today's 17 18 deposition of Steven Geis on December 10, 2010. 18 19 We're going off the video record at 5:23 p.m. 19 20 FURTHER DEPONENT SAITH NOT. 20 21 21 22 22 23 23

24



24

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1	INDEX	1	DEPOSITION ERRATA SHEET
2	THE EX	2	Assignment No. 179917
3	WITNESS EXAMINATION		UNITED STATES DISTRICT COURT
4	Page Line	3	DISTRICT OF NEW JERSEY
5	STEVEN GEIS	4	ALASKA ELECTRICAL PENSION)
6	Mr. Saham 5 10	5	FUND, et al., On Behalf of)
7		6	Themselves and All Others) No. 03-1519
	Mr. Weiss 334 2	7	Similarly Situated,) (AET)
8		8	Plaintiffs,)
9	EVILIBLE 0	9	vs.)
10	EXHIBITS	10	PHARMACIA CORPORATION, et al.,)
11	Plaintiffs' Deposition Exhibit Page Line	11	Defendants.)
12	No. 248 9 6	12	DECLARATION UNDER PENALTY OF PERJURY
13	No. 249 42 20	13	I declare under penalty of perjury that I
14	No. 250 55 3	14	have read the entire transcript of my Deposition
15	No. 251 70 7	15	taken in the captioned matter or the same has been
16	No. 252 79 23	16	read to me, and the same is true and accurate, save
17	No. 253 92 4	17	and except for changes and/or corrections, if any,
18	No. 254 106 7	18	as indicated by me on the DEPOSITION ERRATA SHEET
19	No. 255 111 13	19	hereof, with the understanding that I offer these
20	No. 256 140 13	20	changes as if still under oath.
21	No. 257 193 3	21	Signed on the day of
22	No. 258 210 8	22	, 20
23	No. 259 213 19	23	
24	No. 260 222 23	24	STEVEN GEIS
	338		340
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7	No. 265 262 11	7	Reason for change:
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9	No. 267 272 6	9	December to the second
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13	No. 271 317 23	13	Reason for change:
14	No. 272 321 9	14	Page NoLine NoChange to:
15	No. 273 324 14	15	
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24		24	STEVEN GEIS



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EXHIBIT 9

1	IN THE UNITED STATES DISTRICT COURT	1 1	APPEARANCES OF COUNSEL:
2	DISTRICT OF NEW JERSEY	2	
3		3	FOR THE DEFENDANT PFIZER CORPORATION:
4		4	DLA PIPER US LLP
5	ALASKA ELECTRICAL PENSION FUND,)	5	BY: MR. LOREN H. BROWN
6	et al., on behalf of themselves)	6	1251 Avenue of the Americas
7	and all others similarly situated,)	7	New York, New York 10020-1104
8	Plaintiffs,)	8	(212) 335-4846
9	vs.) No. 03-1519	9	(212) 000 4040
10	PHARMACIA CORPORATION, et al.,)	10	
11	Defendants.	11	FOR THE DEPONENT:
	Defendants.	12	
12)		AMERICAN MEDICAL ASSOCIATION
13	NO. 1 CONTUENING	13	BY: MR. LEONARD A. NELSON
14	Videotaped deposition of CATHERINE	14	515 North State Street
15	DE ANGELIS, at 515 North State Street,	15	Chicago, Illinois 60610
16	Chicago, Illinois, commencing at	16	(312) 464-5532
17	11:00 a.m. on Friday, January 12,	17	
18	2007, before Donna M. Stifter, RPR,	18	ALSO PRESENT:
9	CSR No. 084-003145.	19	John Sheehan, Videographer
20		20	
21		21	
22		22	
23		23	
24		24	
1		2	
	APPEARANCES OF COUNSEL:	1	THE VIDEOGRAPHER: Good morning. This 11:08
2	APPEARANCES OF COUNSEL:	1 2	THE VIDEOGRAPHER: Good morning. This 11:08 is Videotape No. 1 of the deposition of miss
	FOR THE PLAINTIFFS:		
3		2	is Videotape No. 1 of the deposition of miss
3 4	FOR THE PLAINTIFFS:	2 3	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska
3 4 5	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER	2 3 4	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia
3 4 5 6	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP	2 3 4 5	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09
3 4 5 6 7	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY	2 3 4 5	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No
3 4 5 6 7 8	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway	2 3 4 5 6 7	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey.
3 4 5 6 7 8	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway Suite 1900	2 3 4 5 6 7 8	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey. THE VIDEOGRAPHER: I'm sorry. District
3 4 5 6 7 8 9	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway Suite 1900 San Diego, California 92101-3301	2 3 4 5 6 7 8 9	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey. THE VIDEOGRAPHER: I'm sorry. District of New Jersey, Case No. 03-1519.
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3 4 5 6 7 8 9 10 11 12 13 14	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway Suite 1900 San Diego, California 92101-3301 (619) 231-1058 FOR THE DEFENDANT PHARMACIA CORPORATION: CADWALADER, WICKERSHAM & TAFT, LLP	2 3 4 5 6 7 8 9 10 11 12 13	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey. THE VIDEOGRAPHER: I'm sorry. District of New Jersey, Case No. 03-1519. This deposition is being held in 11:09 the offices of the American Medical Association located at 515 North State Street, Chicago, Illinois. The date today is the 12th day of January, 2007. The time now is approximately
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2 3 4 5 6 7 8 9 10 111 112 113 114 115 116 117 118 119 220 221 222	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway Suite 1900 San Diego, California 92101-3301 (619) 231-1058 FOR THE DEFENDANT PHARMACIA CORPORATION: CADWALADER, WICKERSHAM & TAFT, LLP BY: MR. JASON M. HALPER MS. KATHERINE A. RITCHIE One World Financial Center New York, New York 10281	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey. THE VIDEOGRAPHER: I'm sorry. District of New Jersey, Case No. 03-1519. This deposition is being held in 11:09 the offices of the American Medical Association located at 515 North State Street, Chicago, Illinois. The date today is the 12th day of January, 2007. The time now is approximately 11:09. At this time I'd like the counsels to please identify themselves and whom they represent. MR. MONTGOMERY: Matthew Montgomery from Lerach Coughlin for plaintiffs. 11:09 MR. HALPER: Jason Halper, Cadwalader,
3 4 5 6 7 8 9 110 111 112 113 114 115 116 117 118 119 220	FOR THE PLAINTIFFS: LERACH COUGHLIN STOIA GELLER RUDMAN & ROBBINS, LLP BY: MR. MATTHEW MONTGOMERY 655 West Broadway Suite 1900 San Diego, California 92101-3301 (619) 231-1058 FOR THE DEFENDANT PHARMACIA CORPORATION: CADWALADER, WICKERSHAM & TAFT, LLP BY: MR. JASON M. HALPER MS. KATHERINE A. RITCHIE One World Financial Center New York, New York 10281	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	is Videotape No. 1 of the deposition of miss Catherine DeAngelis taken in the matter of Alaska Electrical Pension Fund, et al. vs. Pharmacia Corp., et al., in the United States District Court 11:09 for Northern Illinois, Case No MR. MONTGOMERY: New Jersey. THE VIDEOGRAPHER: I'm sorry. District of New Jersey, Case No. 03-1519. This deposition is being held in 11:09 the offices of the American Medical Association located at 515 North State Street, Chicago, Illinois. The date today is the 12th day of January, 2007. The time now is approximately 11:09. At this time I'd like the counsels to please identify themselves and whom they represent. MR. MONTGOMERY: Matthew Montgomery from Lerach Coughlin for plaintiffs. 11:09

Pharmacia None Page 1 - 4

			•
	5		
1	Cadwalader for defendants. 11:10	1	BY MR. MONTGOMERY: 11:11
2	MR. NELSON: Leonard Nelson representing	2	Q. First of all, I'd like to thank you for
3	the witness.	3	being here, and I appreciate your time. My goal
4	THE VIDEOGRAPHER: And I'd just like to	4	is to get the information I need and get you out
5	say that those of you that aren't actually miked 11:10	5	of here as quickly as possible. 11:11
6	up, we can hear everybody very clearly, so there's	6	A. Thank you. And you're welcome.
7	no problem with that.	7	Q. We're basically going to go through this
8	At this time I'd like the Court	8	stack of documents. So you can tell where we are
9	Reporter to please administer the oath and we may	9	in the deposition, at least my part of the
10	begin. 11:10	10	deposition, by how far through it we are. 11:12
11	CATHERINE DE ANGELIS,	11	A. Sure.
12	having been first duly sworn, was examined and	12	Q. Have you ever been deposed before?
13	testified as follows:	13	A. Yes, sir.
14	EXAMINATION	14	Q. How many times, approximately?
15	BY MR. MONTGOMERY: 11:10	15	A. Oh, five or six. 11:12
16	BY MR. MONTGOMERY:	16	Q. Okay. Then I'll skip some of the
17	Q. Could you state your name for the	17	preliminaries.
18	record, please?	18	Do you understand that even though
19	A. Catherine DeAngelis.	19	we're in a conference room, the oath you just took
	•		
20	Q. Good morning, Dr. DeAngelis. 11:10	20	has the same force and effect as it would if you 11:12
21	A. Good morning.	21	were in a court of law?
22	Q. As I told you earlier, my name is Matt	22	A. Yes.
23	Montgomery and I represent the plaintiffs in this	23	Q. And do you understand that the Court
24	case.	24	Reporter to my left and your right is typing down
	6		
1	6 The plaintiffs in this case at this 11:10	1	all my questions and your answers, so we can't 11:12
1 2		1 2	all my questions and your answers, so we can't 11:12 overlap with one another?
	The plaintiffs in this case at this 11:10		
2	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought	2	overlap with one another?
2	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought stock in Pharmacia between 2000 and 2002.	2	overlap with one another? A. Yes.
2 3 4	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought stock in Pharmacia between 2000 and 2002. A. Yes.	2 3 4	overlap with one another? A. Yes. Q. Now, during the course of the deposition
2 3 4 5	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought stock in Pharmacia between 2000 and 2002. A. Yes. Q. And the basis of the case is that they 11:11	2 3 4 5	overlap with one another? A. Yes. Q. Now, during the course of the deposition your attorney or one of the defense attorneys may 11:12
2 3 4 5 6	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought stock in Pharmacia between 2000 and 2002. A. Yes. Q. And the basis of the case is that they 11:11 allege that defendants, which are Pharmacia,	2 3 4 5 6	overlap with one another? A. Yes. Q. Now, during the course of the deposition your attorney or one of the defense attorneys may 11:12 interpose an objection.
2 3 4 5 6 7	The plaintiffs in this case at this 11:10 point are a group of pension funds that bought stock in Pharmacia between 2000 and 2002. A. Yes. Q. And the basis of the case is that they 11:11 allege that defendants, which are Pharmacia, Pfizer, and some of their employees, made false or	2 3 4 5 6 7	overlap with one another? A. Yes. Q. Now, during the course of the deposition your attorney or one of the defense attorneys may 11:12 interpose an objection. A. Okay.
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Pharmacia None Page 5 - 8

		9	
1	Q. And is its commercial name Celebrex? 11:13	1	subpoena pursuant to which you're here today? 11:16
2	A. Yes.	2	(Document tendered to the witness.)
3	Q. So if I refer to Celebrex, you	3	A. Yes.
4	understand I'm also referring to celecoxib?	4	Q. Have you seen this before?
5	A. Yes. 11:13	5	A. Yes. 11:16
6	Q. Are you familiar with the celecoxib	6	Q. I only want to ask you about the last
7	long-term arthritis safety study also called	7	page.
8	CLASS?	8	And while we're at it, it's a good
9	A. Yes.	9	time to explain: I'm going to show you several
10	Q. So if I refer to CLASS, I'd be referring 11:13	10	documents today. Feel free to read all or a part 11:16
11	to that study.	11	of whichever document I show you. But a lot of
12	A. I'm familiar at least with the component	12	times I'm only going to be asking you about a
13	that we dealt with at JAMA.	13	small part of the document. So you might want to
14	Q. JAMA is another example. That is the	14	let me point you in the direction and then you can
15	Journal of the American Medical Association; 11:13	15	read as much of the document as you feel is 11:16
16	correct?	16	necessary to get the context.
17	A. Yes. But our official name is, our	17	A. Okay.
18	legal name is JAMA, the Journal of the American	18	Q. All right. Looking at Page 9 of Exhibit
19	Medical Association.	19	17, do you see the items under Documents Requested
20	Q. Okay. I did not know that. 11:14	20	and under Request No. 2, all documents concerning 11:16
21	As I explained to you earlier, the	21	the CLASS study? It says Request No. 2. Do you
	defendants in this case are Pfizer, Pharmacia, and	22	see that?
22			
23	certain of their employees. So if I say the	23	A. Yes.
24	"defendants," I mean those companies and their	24	Q. Did you personally do anything to search
		10	
1	employees. 11:14	10 1	for or produce documents concerning the CLASS 11:17
1 2	employees. 11:14 A. Yes.		
		1	for or produce documents concerning the CLASS 11:17
2	A. Yes.	1 2	for or produce documents concerning the CLASS 11:17 study?
2	A. Yes. MR. HALPER: Just for the sake of	1 2 3	for or produce documents concerning the CLASS 11:17 study? A. I delegated that responsibility but took
2 3 4	A. Yes. MR. HALPER: Just for the sake of accuracy, the individuals who are defendants in	1 2 3 4	for or produce documents concerning the CLASS 11:17 study? A. I delegated that responsibility but took responsibility for it.
2 3 4 5	A. Yes. MR. HALPER: Just for the sake of accuracy, the individuals who are defendants in the case are former Pharmacia employees. 11:14	1 2 3 4 5	for or produce documents concerning the CLASS 11:17 study? A. I delegated that responsibility but took responsibility for it. Q. Who did you delegate it to? 11:17
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Pharmacia None Page 9 - 12

	13		1
1	please, it indicates towards the top of that page 11:18	1	you were just talking about? 11:21
2	that beginning in the year 2000 you became the	2	A. Repeat that.
3	editor in chief of JAMA; is that correct?	3	Q. Sure. Did you have any substantive
4	A. Yes.	4	conversations or discussions about the CLASS study
5	Q. At what point in the year did you 11:18	5	before the editorial meeting that you just talked 11:21
6	become	6	about a minute ago?
7	A. January 1st.	7	A. I might have discussed it with the
8	Q. And you still have that position today?	8	editor who was handling it. But we discuss all
9	A. Yes.	9	kinds of things all the time. Our offices are all
10	Q. Thinking of the time period of 2000 11:18	10	together. 11:21
11	through 2002, what were your responsibilities as	11	Q. Sitting here today, do you remember
12	editor in chief generally speaking?	12	the
13	A. I was responsible for all editorial	13	A. No.
14	material that appeared in JAMA related	14	Q content of those conversations?
15	specifically to JAMA or anything that appeared 11:19	15	A. No. 11:21
16	on-line.	16	Q. I appreciate your willingness to answer,
17	Q. From a day-to-day perspective, what were	17	but you have to make sure and wait until I'm done
18	your responsibilities with regard to the contents?	18	with my question before you answer, just so she
19	Did you personally edit every article that	19	can type it more easily.
20	appeared in JAMA? 11:19	20	•
21	A. Did I personally edit, no. Did I	21	meeting though which is the first I'm sorry,
22	personally read and approve every one after	22	it's not the first time. You mentioned an
23	various people edited, yes.	23	editorial meeting?
24	Q. We spoke a little earlier about the	24	A. Manuscript meeting.
1	CLASS study. Do you recall that? 11:10	1	O I'm sorry manuscript meeting. And what 11:21
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Pharmacia None Page 13 - 16

	17		
1	meeting occurred? 11:23	1	Q. Did you participate in those 11:25
2	A. No.	2	discussions?
3	Q. After that meeting when was the next	3	A. Some of them.
4	time you considered the manuscript that had been	4	Q. Who did you speak with?
5	submitted? 11:23	5	A. Dr. Winker. 11:25
6	A. It was discussed again at another	6	Q. Do you recall what you guys discussed?
7	manuscript meeting after the revisions had been	7	A. Mostly I wanted to know what were the
8	made.	8	alterations that were requested on the edited copy
9	Q. Do you recall what revisions had been	9	and what were the responses and how to proceed.
10	requested 11:23	10	Q. Were you satisfied with the changes that 11:26
11	A. No.	11	were made?
12	Q from the previous meeting?	12	A. Yes.
13	Do you recall what the conversation	13	Q. I'd like to show the witness now what's
14	was at that second meeting?	14	previously been marked as Exhibit 3. (Document
15	A. Not specifically. 11:23	15	tendered to the witness.) 11:26
16	Q. Was there a disposition of the	16	For the record, this is an article
17	article	17	from the September 13, 2000 issue of JAMA entitled
18	A. Yes.	18	"Gastrointestinal Toxicity With Celecoxib vs.
19	Q that resulted from that meeting?	19	Nonsteroidal Anti-inflammatory Drugs for
20	A. Yes. 11:23	20	Osteoarthritis and Rheumatoid Arthritis. The 11:27
21	Q. And what was that?	21	CLASS Study: A Randomized Controlled Trial."
22	A. Provisional accept, meaning there were	22	Catchy.
23	certain things that were necessary before we could	23	A. Hey, we try our best.
24	officially accept it.	24	Q. So is this the article that was
	18		
1	Q. And sitting here today, do you recall 11:24	1	ultimately published in JAMA concerning the CLASS 11:27
2	Q. And sitting here today, do you recall 11:24 why you accepted the article?	2	study?
2	Q. And sitting here today, do you recall 11:24why you accepted the article?A. Because we thought that it was well	2	study? A. Yes.
2 3 4	Q. And sitting here today, do you recall 11:24 why you accepted the article? A. Because we thought that it was well done, it was well reviewed by peers, they had made	2 3 4	study? A. Yes. Q. Do you see the individuals listed on the
2 3 4 5	Q. And sitting here today, do you recall 11:24 why you accepted the article? A. Because we thought that it was well done, it was well reviewed by peers, they had made the changes that we had requested to make it 11:24	2 3 4 5	study? A. Yes. Q. Do you see the individuals listed on the left-hand side of the first page of Exhibit 3? 11:27
2 3 4 5 6	Q. And sitting here today, do you recall 11:24 why you accepted the article? A. Because we thought that it was well done, it was well reviewed by peers, they had made the changes that we had requested to make it 11:24 stronger scientifically, and it was one of the	2 3 4 5 6	study? A. Yes. Q. Do you see the individuals listed on the left-hand side of the first page of Exhibit 3? A. Yes.
2 3 4 5 6 7	Q. And sitting here today, do you recall 11:24 why you accepted the article? A. Because we thought that it was well done, it was well reviewed by peers, they had made the changes that we had requested to make it 11:24 stronger scientifically, and it was one of the best of the, at that point I think we had about	2 3 4 5 6 7	study? A. Yes. Q. Do you see the individuals listed on the left-hand side of the first page of Exhibit 3? A. Yes. Q. Who are they relative to this article?
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2 3 4 5 6 7 8	Q. And sitting here today, do you recall why you accepted the article? A. Because we thought that it was well done, it was well reviewed by peers, they had made the changes that we had requested to make it stronger scientifically, and it was one of the best of the, at that point I think we had about thirty-five hundred to four thousand manuscripts, I guess that year about thirty-five hundred, and it was part of the relatively few that we chose to 11:24 publish. Q. Was there something about the content of it or the subject matter of it specifically that you thought warranted publication in JAMA? A. It was clinically relevant. 11:24 Q. What do you mean by that? A. That physicians and clinicians and other medical researchers could use the information to ultimately take better care of patients. Q. After the second meeting that you just 11:25 described, were there any further meetings prior	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	study? A. Yes. Q. Do you see the individuals listed on the left-hand side of the first page of Exhibit 3? 11:27 A. Yes. Q. Who are they relative to this article? A. These are the authors. Q. And does the order of the authors as they are listed here have any significance? 11:27 A. Usually the first author is called the primary author. Q. The first person listed on the list you mean? A. Dr. Silverstein. 11:28 Q. Okay. A. But in this case the corresponding author was third from the last, James Lefkowith. On occasion, depending, usually the last author is the senior author but not 11:28 necessarily.

Pharmacia None Page 17 - 20

		04	
1	Q. Okay. 11:28	21 1	of numbers there? Those are what we call Bates 11:34
2	That's the person who is considered to	2	numbers.
3	be the first person you would call if you had a	3	A. Yes.
4	question about the article once it's published,	4	Q. So in other longer documents I may
5	someone in the audience who would read it. 11:28	5	direct you and I will usually do it by the Bates 11:34
		6	
6	The corresponding author is the	7	number there, and often times I'll just use the last three or four digits instead of reading the
7	individual with whom we, the editors, correspond		· · · · · · · · · · · · · · · · · · ·
8	regarding the manuscript it testify. He	8	entire thing.
9	represents the group.	9	A. Okay.
10	Q. What is the participation of all the 11:29	10	Q. On the second page of Exhibit 19, do you 11:34
11	other people that are listed?	11	see there's a number of bullet points there?
12	A. Every one of them have to meet our	12	A. Yes.
13	criteria as far as having had a major role in this	13	Q. I'd like you to look at the last bullet
14	study and they have a signed document to that	14	point that starts "In discussing the CLASS trial."
15	effect, we have that document. 11:29	15	And underneath that there's a series of dashes. 11:34
16	Q. Okay. I'd like you to put that aside,	16	Do you see that?
17	but we're going to come back to it, so you might	17	A. Yes.
18	want to keep it handy.	18	Q. I'd like you to look at the first one.
19	MR. MONTGOMERY: I'd like to ask the	19	It says "In making the case for publication in
20	Court Reporter to mark what will be Exhibit 19. 11:29	20	JAMA, the investigators stated this was a 11:34
21	(WHEREUPON Deposition Exhibit	21	twelve-month study but they only had six months of
22	No. 19 was marked as of	22	data." Do you see that?
23	1/12/2007.)	23	A. Yes.
24		24	Q. Do you remember saying that in
		22	
1	BY MR. MONTGOMERY: 11:29	1	A. No. 11:35
2			
	Q. Have you ever seen Exhibit 19 before?	2	Q a presentation?
3	Q. Have you ever seen Exhibit 19 before? (Document tendered to the witness.)		•
	(Document tendered to the witness.)	3	A. No. And I would be surprised if I said
4	(Document tendered to the witness.) A. No.	3 4	A. No. And I would be surprised if I said that.
4 5	(Document tendered to the witness.) A. No. Q. For the record, it's a memo on Ruder 11:32	3 4 5	A. No. And I would be surprised if I said that. Q. Why's that? 11:35
3 4 5 6	(Document tendered to the witness.) A. No. Q. For the record, it's a memo on Ruder 11:32 Finn stationery dated November 1, 2001, from	3 4 5 6	 A. No. And I would be surprised if I said that. Q. Why's that? 11:35 A. Because the investigators, to my
4 5 6 7	(Document tendered to the witness.) A. No. Q. For the record, it's a memo on Ruder 11:32 Finn stationery dated November 1, 2001, from Elinore White to Debra Charlesworth concerning	3 4 5 6 7	A. No. And I would be surprised if I said that. Q. Why's that? 11:35 A. Because the investigators, to my knowledge, and certainly not to me, never said it
4 5 6 7 8	(Document tendered to the witness.) A. No. Q. For the record, it's a memo on Ruder 11:32 Finn stationery dated November 1, 2001, from Elinore White to Debra Charlesworth concerning remarks by Catherine DeAngelis at a Columbia	3 4 5 6 7 8	A. No. And I would be surprised if I said that. Q. Why's that? 11:35 A. Because the investigators, to my knowledge, and certainly not to me, never said it was a twelve-month study.
4 5 6 7 8 9	(Document tendered to the witness.) A. No. Q. For the record, it's a memo on Ruder 11:32 Finn stationery dated November 1, 2001, from Elinore White to Debra Charlesworth concerning remarks by Catherine DeAngelis at a Columbia Alliance for Healthcare Management meeting dated	3 4 5 6 7 8	A. No. And I would be surprised if I said that. Q. Why's that? 11:35 A. Because the investigators, to my knowledge, and certainly not to me, never said it was a twelve-month study. Q. What did they say?
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Pharmacia None Page 21 - 24

	25		
1	participating longer? 11:36	1	had been misled? 11:38
2	A. Yes.	2	A. Yes.
3	Q. All right. Would you look at the fourth	3	Q. And why did you conclude that?
4	dash underneath that bullet point. I'll read it	4	A. Because when we asked the question of
5	into the record. It says "In February, 11:37	5	the corresponding author do you have more than six 11:39
6	Dr. DeAngelis said she received a call from a	6	months data, the response, and I don't have it
7	colleague informing her that the twelve-month data	7	here with me, but the correspondence from him via
8	was posted at the FDA website." Is that correct?	8	Dr. Winker said this is a six-month study and made
9	MR. HALPER: Well, objection. Are you	9	no mention that there were more data. He said the
10	asking Dr. DeAngelis if she recalls making this 11:37	10	study is closed. Those are specific words I 11:39
11	statement or sitting here today if she agrees with	11	remember, the study is closed, and it was a
12	the statement?	12	six-month study.
13	MR. MONTGOMERY: Good objection.	13	Q. Going back to this document, on that
14	BY MR. MONTGOMERY:	14	bullet point, the last dash says, and I'll read it
15	Q. Do you recall making that statement? 11:37	15	into the record again, "She stated that the 11:39
16	A. Not specifically, no.	16	pharmaceutical companies involved requested five
17	Q. In fact, did that occur? Did you	17	meetings with her. She allowed one meeting and
18	receive a call in February?	18	they came to an agreement."
		19	Do you recall saying that at any
19	A. I can't recall if it was in February,		
20	but I did receive a call. 11:37	20	time? 11:40
21	Q. And who did you receive the call from?	21	A. No.
22	A. I don't, it says "colleague." I don't	22	Q. Did, in fact, the pharmaceutical
23	recall who it was.	23	companies involved ask for a meeting with you?
24	Q. You recall generally speaking though you	24	The pharmaceutical company did request a
1	26 received a call 11:37	1	meeting, ves. 11:40
1 2	received a call 11:37	1 2	meeting, yes. 11:40
2	received a call 11:37 A. Yes.	2	meeting, yes. 11:40 Q. Did they request five meetings?
2	received a call 11:37 A. Yes. Q from a colleague concerning this	2	meeting, yes. 11:40 Q. Did they request five meetings? A. No.
2 3 4	received a call 11:37 A. Yes. Q. – from a colleague concerning this matter?	2 3 4	meeting, yes. 11:40 Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them?
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2 3 4 5 6	A. Yes. Q from a colleague concerning this matter? A. Yes. 11:37 Q. And according to this bullet point, it	2 3 4 5 6	meeting, yes. 11:40 Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them? A. Yes. 11:40 Q. Do you remember who you met with?
2 3 4 5 6 7	received a call 11:37 A. Yes. Q from a colleague concerning this matter? A. Yes. 11:37 Q. And according to this bullet point, it says that that person explained to you that twelve	2 3 4 5 6 7	meeting, yes. 11:40 Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them? A. Yes. 11:40 Q. Do you remember who you met with? A. These are the cards. Dr. Michael
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2 3 4 5 6 7 8	A. Yes. Q from a colleague concerning this matter? A. Yes. 11:37 Q. And according to this bullet point, it says that that person explained to you that twelve months of data was posted on the FDA website. Is that what occurred in the call	2 3 4 5 6 7 8 9	meeting, yes. 11:40 Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them? A. Yes. 11:40 Q. Do you remember who you met with? A. These are the cards. Dr. Michael Friedman, who was senior vice president for Pharmacia, and Dr. Kenneth Verburg, who's the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	received a call A. Yes. Q from a colleague concerning this matter? A. Yes. 11:37 Q. And according to this bullet point, it says that that person explained to you that twelve months of data was posted on the FDA website. Is that what occurred in the call that you remember? 11:38 A. Yes. Q. Did the colleague that called you tell you anything else that you can remember? A. Not really, no. That was the main reason he called. I do remember it was a he. Q. All right. Going back to the document, the next sentence says "After confirming this, she determined she had been misled about the availability of the twelve-month data."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them? A. Yes. 11:40 Q. Do you remember who you met with? A. These are the cards. Dr. Michael Friedman, who was senior vice president for Pharmacia, and Dr. Kenneth Verburg, who's the clinical vice president for Pharmacia. (Document 11:40 tendered to counsel.) MR. MONTGOMERY: I'd like to ask the Court Reporter to now mark what will be Exhibit 20. And I'd like the record reflect that the witness was just reading from Exhibit 20 reciting 11:41 those names. (WHEREUPON Deposition Exhibit No. 20 was marked as of 1/12/2007.)
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	received a call 11:37 A. Yes. Q from a colleague concerning this matter? A. Yes. 11:37 Q. And according to this bullet point, it says that that person explained to you that twelve months of data was posted on the FDA website. Is that what occurred in the call that you remember? 11:38 A. Yes. Q. Did the colleague that called you tell you anything else that you can remember? A. Not really, no. That was the main reason he called. I do remember it was a he. 11:38 Q. All right. Going back to the document, the next sentence says "After confirming this, she determined she had been misled about the availability of the twelve-month data." Do you recall saying that at any 11:38 conference in 2001?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	meeting, yes. 11:40 Q. Did they request five meetings? A. No. Q. And did you, in fact, meet with them? A. Yes. 11:40 Q. Do you remember who you met with? A. These are the cards. Dr. Michael Friedman, who was senior vice president for Pharmacia, and Dr. Kenneth Verburg, who's the clinical vice president for Pharmacia. (Document 11:40 tendered to counsel.) MR. MONTGOMERY: I'd like to ask the Court Reporter to now mark what will be Exhibit 20. And I'd like the record reflect that the witness was just reading from Exhibit 20 reciting 11:41 those names. (WHEREUPON Deposition Exhibit No. 20 was marked as of 1/12/2007.) BY MR. MONTGOMERY: 11:41 Q. Can you tell me what occurred at that

Pharmacia None Page 25 - 28

1	Q. When was that? August 21st? 11:41	1	Q. Yes. 11:44	;
2		2		
3	A. August 21, 2001.	3	A. No. I personally did not correspond with Dr. Lefkowith. Dr. Winker did. But when my	
	Q. On Exhibit 20 in the upper left-hand		•	
4	corner there's your name and another doctor	4	editors correspond, they really, everything comes	
5	underneath you. 11:41	5	across my name and I take responsibility for it. 11:44	
6	A. Dr. Fontanarosa. He's my executive	6	So anything out of the ordinary they discuss with	
7	deputy editor. I wanted him in the room with me.	7	me.	
8	Q. Why's that?	8	So while I never directly discussed	
9	Because it's a precautionary thing I	9	this with Dr. Lefkowith, I was aware of what was	
10	always do. 11:42	10	going on. I never directly discussed anything 11:44	
11	Q. Precautionary against what?	11	with Dr. Silverstein, but he did receive the	
12	A. Because my memory is only the memory of	12	letter from my letter editor over my name	
13	one brain. It helps to have two, or more. But I	13	requesting that he reply.	
14	like him in the room.	14	Q. And was that prior to the August 21,	
15	Q. Exhibit 19 references an agreement, that 11:42	15	2001 meeting? 11:45	
16	you came to an agreement. Did that actually	16	A. Yes.	
17	occur?	17	Q. Prior to the August 21, 2001 meeting, to	
18	A. I'm sorry? We came to an agreement?	18	your knowledge, did anyone from JAMA communicate	
19	Q. Right. Was there any agreement reached	19	with anyone from Pharmacia or Pfizer concerning	
20	at the meeting? 11:42	20	the JAMA article? 11:45	
21	A. An agreement to what?	21	A. Not to my knowledge.	
22	Q. That was my next question.	22	Q. Do you have an understanding why at this	
23	A. No. I don't know what the meaning of	23	time, August 21, 2001, you were communicating with	
23		24	the company as opposed to the authors of the	
24	"agreement" means.		the company as opposed to the administration	
24			the company as appeared to the addition of the	:
	30			
1	30 We had a discussion, and he 11:42	1	article? 11:45	
1 2	30 We had a discussion, and he 11:42 understood, I made him understand why I was upset.	1 2	article? 11:45 A. It was the first question, I do remember	
1 2 3	30 We had a discussion, and he 11:42 understood, I made him understand why I was upset. The reason he had called was because we had sent	1 2 3	article? 11:45 A. It was the first question, I do remember this specifically, it was the first question I	
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1 2 3 4 5 6 7 8 9 110 111 112 113 114 115 116 117 118 119 220	We had a discussion, and he 11:42 understood, I made him understand why I was upset. The reason he had called was because we had sent letters that we received from people making essentially the same allegation that was said 11:43 here. When people call and have comments about a particular article, I invite them to please write a letter to the editor and then I ask the author to reply. This is the scientific way. 11:43 There were two letters that we received. I sent them to Dr. Silverstein, the primary author, and asked for his reply. That I believe is what stimulated the company calling me, once that I recall. And I 11:43 just said to them that there would be every opportunity for Dr. Silverstein to respond to the allegations made in the letters to the editor. If you call that an agreement	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	article? A. It was the first question, I do remember this specifically, it was the first question I asked Dr. Friedman because I fully expected that Dr. Silverstein would be in the meeting and he was 11:46 not. Q. And what was the answer to your question? A. They didn't think it was necessary. Q. How did you feel about that response? 11:46 A. I thought it peculiar. Q. Why is that? A. Because their concern was about the study and neither of these individuals names was an author. They didn't partake in this study. So 11:46 it was a little bit peculiar. It was unusual. But I should say it's unusual for me to meet with anyone about an article after it's published. Q. Right. I should have mentioned earlier:	
1 2 3 4 5 6 7 8 9 110 111 12 113 114 115 116 117 118 119 220 221	We had a discussion, and he 11:42 understood, I made him understand why I was upset. The reason he had called was because we had sent letters that we received from people making essentially the same allegation that was said 11:43 here. When people call and have comments about a particular article, I invite them to please write a letter to the editor and then I ask the author to reply. This is the scientific way. 11:43 There were two letters that we received. I sent them to Dr. Silverstein, the primary author, and asked for his reply. That I believe is what stimulated the company calling me, once that I recall. And I 11:43 just said to them that there would be every opportunity for Dr. Silverstein to respond to the allegations made in the letters to the editor. If you call that an agreement Q. Prior to the meeting that we're talking 11:44 about, had you only communicated with the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	article? A. It was the first question, I do remember this specifically, it was the first question I asked Dr. Friedman because I fully expected that Dr. Silverstein would be in the meeting and he was 11:46 not. Q. And what was the answer to your question? A. They didn't think it was necessary. Q. How did you feel about that response? 11:46 A. I thought it peculiar. Q. Why is that? A. Because their concern was about the study and neither of these individuals names was an author. They didn't partake in this study. So 11:46 it was a little bit peculiar. It was unusual. But I should say it's unusual for me to meet with anyone about an article after it's published. Q. Right. I should have mentioned earlier: If you want to take a break at any time, just let 11:47 me know and we'll go off the record.	
1 2 3 4 5 6 7 8	We had a discussion, and he 11:42 understood, I made him understand why I was upset. The reason he had called was because we had sent letters that we received from people making essentially the same allegation that was said 11:43 here. When people call and have comments about a particular article, I invite them to please write a letter to the editor and then I ask the author to reply. This is the scientific way. 11:43 There were two letters that we received. I sent them to Dr. Silverstein, the primary author, and asked for his reply. That I believe is what stimulated the company calling me, once that I recall. And I 11:43 just said to them that there would be every opportunity for Dr. Silverstein to respond to the allegations made in the letters to the editor. If you call that an agreement Q. Prior to the meeting that we're talking 11:44	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	article? A. It was the first question, I do remember this specifically, it was the first question I asked Dr. Friedman because I fully expected that Dr. Silverstein would be in the meeting and he was 11:46 not. Q. And what was the answer to your question? A. They didn't think it was necessary. Q. How did you feel about that response? 11:46 A. I thought it peculiar. Q. Why is that? A. Because their concern was about the study and neither of these individuals names was an author. They didn't partake in this study. So 11:46 it was a little bit peculiar. It was unusual. But I should say it's unusual for me to meet with anyone about an article after it's published. Q. Right. I should have mentioned earlier: If you want to take a break at any time, just let 11:47	

Pharmacia None Page 29 - 32

	33		3:
1	THE VIDEOGRAPHER: Just a moment. 11:47	1	referring to Exhibit 3 throughout the deposition 11:52
2	(WHEREUPON a recess was taken.)	2	as just "the JAMA article."
3	THE VIDEOGRAPHER: Okay. We are back on	3	Had you been told that, would you
4	the record. The time now is 11:50.	4	have understood that the study lasted longer than
5	(WHEREUPON Deposition Exhibit 11:50	5	six months? 11:52
6	No. 21 was marked as of	6	A. Had I been told this, yes.
7	1/12/2007.)	7	Q. I'd like you to now look down at the
8	BY MR. MONTGOMERY:	8	section entitled Number of Patients. Do you see
9	Q. I had previously asked the Court	9	that?
10	Reporter to mark what would be Exhibit 21, which I 11:50	10	A. Yes. 11:53
11	believe you now have in front of you; is that	11	Q. The second sentence in that beginning "A
12	correct? Is that correct? You have Exhibit 21 in	12	total 8,059." Do you see that?
13	front of you? (Document tendered to the witness.)	13	A. Yes.
14	A. Yes.	14	Q. I'm going to read that into the record.
15	Q. Have you ever seen this document before? 11:50	15	It says "A total of 8,059 patients were enrolled, 11:53
16	A. No.	16	of whom 4,573 completed six months of treatment
17	Q. Does it purport to be a final report of	17	and 3,409 completed the study."
18	the CLASS study?	18	Do you know whether or not you were
19	A. Yes.	19	told that
20	Q. Have you seen final study reports before 11:51	20	A. I was not. 11:53
21	of other studies?	21	Q prior to publication of the JAMA
22	A. Yes.	22	article?
23		23	A. No.
	Q. Does this look more or less like they	23	
24	usually look?	24	Q. And had you been told that, would you
	34		3
1	A. Yes. 11:51	1	have understood that the study lasted longer than 11:53
2	A. Yes. 11:51 Q. What's the date of this document? It's	2	have understood that the study lasted longer than 11:53 six months?
	A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle.	2	have understood that the study lasted longer than 11:53 six months? A. Well, yes.
2	 A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle. A. The dates, September 23, 1998 through 	2 3 4	have understood that the study lasted longer than 11:53 six months? A. Well, yes. Q. You're reaching for Exhibit 3, which is
2	A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle. A. The dates, September 23, 1998 through March 17, 2000. The document date is the 25th of 11:51	2 3 4 5	have understood that the study lasted longer than 11:53 six months? A. Well, yes. Q. You're reaching for Exhibit 3, which is exactly what I'd like you to look at now, if you 11:53
2 3 4 5 6	A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle. A. The dates, September 23, 1998 through March 17, 2000. The document date is the 25th of 11:51 May, 2000.	2 3 4 5 6	have understood that the study lasted longer than 11:53 six months? A. Well, yes. Q. You're reaching for Exhibit 3, which is
2 3 4 5	A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle. A. The dates, September 23, 1998 through March 17, 2000. The document date is the 25th of 11:51	2 3 4 5	have understood that the study lasted longer than 11:53 six months? A. Well, yes. Q. You're reaching for Exhibit 3, which is exactly what I'd like you to look at now, if you 11:53
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. 11:51 Q. What's the date of this document? It's on the first page, in the middle. A. The dates, September 23, 1998 through March 17, 2000. The document date is the 25th of 11:51 May, 2000. Q. Would you turn to the third page, which is Bates number ending 925. Do you see the Methodology section in the middle of the page? A. Yes. 11:52 Q. I'd like you to look at the fifth line down in that, beginning "Treatment duration." Do you see that? A. Yes I see it. Q. I'm going to read it into the record. 11:52 It says "Treatment duration lasted for at least twenty-six weeks with a maximum potential treatment period of fifty-two or sixty-five weeks." Do you see that? A. Yes. 11:52	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	six months? A. Well, yes. Q. You're reaching for Exhibit 3, which is exactly what I'd like you to look at now, if you 11:53 would, please. I would like to compare the language that we just looked at with the language on Exhibit 3, on the first page under Participants on the first page of Exhibit 3 of the JAMA article. 11:54 A. Right. Q. The last sentence reads "A total of 4,573 patients (fifty-seven percent) received treatment for six months." Do you see that? A. Yes. 11:54 Q. Now, reading that, did you understand that the study only lasted six months? A. Yes. Q. Had defendants included I'm sorry. Had the authors included the language concerning 11:54
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Pharmacia None Page 33 - 36

	37		
1	A. Yes. 11:54	1	Do you see towards the top there's an e-mail 11:59
2	Q. Do you have any understanding of why the	2	saying "Dear All, please find attached two draft
3	language from the final report was not used in the	3	CLASS manuscripts," et cetera?
4	JAMA article?	4	A. Yes.
5	A. I have their explanation. 11:55	5	Q. Then I'd like you to look at the first 11:59
6	Q. And what was that?	6	page which is a continuing e-mail chain. Do you
7	A. It's what's published in their reply to	7	see the second paragraph in the exhibit starting
8	the letters.	8	"In my opinion"?
9	Q. In their letter that was published in	9	A. Yes.
10	JAMA? 11:55	10	Q. I'd like you to look at the second 11:59
11	A. The authors in reply response to the two	11	sentence in that. It says "We are also
12	letters to the editor stating that there was	12	cherry-picking the data (using six months as study
13	information about twelve months because that's the	13	duration)."
14	amount of time it took to get the endpoint which	14	Are you familiar with the phrase
15	was really forty gastrointestinal bleeding 11:55	15	"cherry-picking"? 12:00
16	episodes, which was the real response they were	16	A. Quite.
17	looking for, and it took I believe sixty some	17	Q. What's your understanding of the phrase?
18	weeks to do that.	18	A. You choose the best looking cherries.
19	Q. We're going to look at that letter later	19	Q. And in your experience is cherry-picking
20	on. But just in general, did you find that 11:56	20	data appropriate in the context of a manuscript 12:00
21	explanation satisfactory?	21	concerning a medical study?
22	A. The one by Dr. Silverstein in reply?	22	A. No.
23	Q. Yes.	23	Q. Prior to the publication of the JAMA
24	I found it satisfactory in response to	24	article, did the defendants tell you that they
	38		Acceptance of the control of the con
1	the two letters. It provided information for the 11:56	1	were cherry-picking the first six months of data 12:01
2			forms the authority O
_	readers, the clinicians and scientists, to know	2	from the study?
3	what to make of this study.	3	MR. HALPER: Objection to the form.
4	what to make of this study. Q. Did you think that their explanation	3 4	MR. HALPER: Objection to the form. MR. NELSON: You should answer the
4 5	what to make of this study. Q. Did you think that their explanation justified the representations that were made to 11:56	3 4 5	MR. HALPER: Objection to the form. MR. NELSON: You should answer the question. 12:01
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4 5 6 7	what to make of this study. Q. Did you think that their explanation justified the representations that were made to JAMA concerning the length of the study? A. If you will look at the reply that	3 4 5 6 7	MR. HALPER: Objection to the form. MR. NELSON: You should answer the question. 12:01 THE WITNESS: No. They didn't tell me. BY MR. MONTGOMERY:
4 5	what to make of this study. Q. Did you think that their explanation justified the representations that were made to JAMA concerning the length of the study?	3 4 5 6	MR. HALPER: Objection to the form. MR. NELSON: You should answer the question. 12:01 THE WITNESS: No. They didn't tell me.
4 5 6 7 8	what to make of this study. Q. Did you think that their explanation justified the representations that were made to JAMA concerning the length of the study? A. If you will look at the reply that	3 4 5 6 7	MR. HALPER: Objection to the form. MR. NELSON: You should answer the question. 12:01 THE WITNESS: No. They didn't tell me. BY MR. MONTGOMERY:
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Pharmacia None Page 37 - 40

	41		
1	We discussed before the sentence 12:02	1	beginning with "Homogeneity" through the end of 12:04
2	under Participants.	2	that page.
3	A. Yes.	3	You can continue reading but that's
4	Q. Let's just say the Participant section	4	all I needed you to read. Was there anything in
5	on the first page. 12:02	5	what you just read from Page 880 of Exhibit 3 that 12:05
6	Is it correct that having read	6	indicated to you that the CLASS study lasted
7	that, you did not understand that the study lasted	7	longer than six months?
8	longer than six months?	8	A. No.
9	A. Reading this, no, you would not	9	Q. I'd like to now show the witness what's
10	understand. 12:02	10	previously been marked Exhibit 8. (Document 12:05
11	Q. And you did not at the time of the	11	tendered to the witness.)
12	publication of this article; is that correct?	12	For the record, this is a copy of a
13	A. The study, right, I did not know that	13	Washington Post article dated August 5, 2001
14	the study went on for more than six months. I	14	headline "Missing Data On Celebrex; Full Study
15	understood that patients could continue at their 12:02	15	Altered Picture Of Drug." 12:06
16	own discretion if they wanted to beyond six	16	Have you seen this article before?
17	months.	17	A. Yes.
18	Q. All right. I'd like to ask you to look	18	Q. Did you see it when it was originally
19	at the second page of Exhibit 3, Bates No. 879.	19	published?
20	Do you see in the middle of the 12:03	20	A. Yes. 12:07
21	page there's a heading called Study Protocol?	21	Q. How did you feel about it when you read
22	A. Yes.	22	it when it was originally published?
23	Q. And there's a paragraph right underneath	23	A. Terrible.
24	that. I'd like you to look at the last two	24	Q. Why is that?
	42		
1	sentences of that paragraph, and I'm going to read 12:03	1	A. Because I think it exposed the naivety 12:07
2	sentences of that paragraph, and I'm going to read 12:03 them into the record. It says *After a baseline	2	of some of us who put trust in people who didn't
2	sentences of that paragraph, and I'm going to read 12:03 them into the record. It says "After a baseline visit, follow-up clinic visits took place at Weeks	2	of some of us who put trust in people who didn't deserve that trust, and it made me feel very bad
2 3 4	sentences of that paragraph, and I'm going to read 12:03 them into the record. It says "After a baseline visit, follow-up clinic visits took place at Weeks 4, 13, and 26 after the initial dose of	2 3 4	of some of us who put trust in people who didn't deserve that trust, and it made me feel very bad that in that trust I had exposed Wolfe, who wrote
2 3 4 5	sentences of that paragraph, and I'm going to read 12:03 them into the record. It says "After a baseline visit, follow-up clinic visits took place at Weeks 4, 13, and 26 after the initial dose of medication, and every thirteen weeks thereafter. 12:03	2 3 4 5	of some of us who put trust in people who didn't deserve that trust, and it made me feel very bad that in that trust I had exposed Wolfe, who wrote the editorial, to something that I prefer that I 12:08
2 3 4 5 6	sentences of that paragraph, and I'm going to read 12:03 them into the record. It says "After a baseline visit, follow-up clinic visits took place at Weeks 4, 13, and 26 after the initial dose of medication, and every thirteen weeks thereafter. 12:03 All patients were provided an opportunity to	2 3 4 5 6	of some of us who put trust in people who didn't deserve that trust, and it made me feel very bad that in that trust I had exposed Wolfe, who wrote the editorial, to something that I prefer that I 12:08 hadn't asked him to do.
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Pharmacia None Page 41 - 44

	45		47
1	A. Yes. 12:09	1	CATHERINE DE ANGELIS, 12:12
2	Q. I'd like you to look at the second page	2	having been previously duly sworn, was examined
3	of Exhibit 8. Do you see at the top of that page,	3	and testified further as follows:
4	this is one of the authors of the article,	4	EXAMINATION
5	Dr. Geis, is quoted as saying "The intention 12:09	5	(Resumed) 12:12
6	really was not to be deceptive in any way." Do	6	BY MR. MONTGOMERY:
7	you see that?	7	THE VIDEOGRAPHER: Good afternoon. This
8	A. Yes.	8	begins Videotape No. 2 of the deposition of
9	Q. Sitting here today	9	Catherine DeAngelis. This is Case No. 03-1519 on
10	MR. HALPER: I'm going to object and ask 12:10	10	the 12th of January, 2007. The time now is 01:14
11	that you read into the record the prior sentence	11	1:14 p.m., and I will remind the witness she
12	which he also is quoted as saying.	12	remains under oath.
13	MR. MONTGOMERY: All right. Well, I'm	13	MR. MONTGOMERY: I'd like to ask the
14	not going to, but you're welcome to when you have	14	Court Reporter to mark what will be Exhibit 23.
15	questions. 12:10	15	(WHEREUPON Deposition Exhibit 01:14
16	MR. HALPER: Okay.	16	No. 23 was marked as of
17	BY MR. MONTGOMERY:	17	1/12/2007.)
18	Q. I'll read it again. "The intention	18	BY MR. MONTGOMERY:
19	really was not to be deceptive in any way." Do	19	Q. You can read the whole thing if you
20	you see that? 12:10	20	want. I'm only going to ask you about your quote 01:16
21	A. Yes.	21	on the third page. So it's up to you. And I
22	Q. Sitting here today, do you believe that	22	apologize for the highlighting. (Document
23	to be true?	23	tendered to the witness.)
24	A. No.	24	Do you see the quote from you on
	46		44
1	MR. MONTGOMERY: All right. Let's go 12:10	1	the third page Bates number ending 870? 01:16
2	off the record.	2	A. Yes.
3	THE VIDEOGRAPHER: Okay. This will	3	Q. And it says "I was very upset when I
4	conclude Videotape No. 1. We are going off the	4	found out that they had a full year's data." Do
5	record at approximately 12:10. The deposition 12:11	5	you recall saying that? 01:16
6	will continue on Videotape No. 2.	6	A. Yes.
7	(WHEREUPON a lunch recess was	7	Q. Is that an accurate quote?
8	taken, and said deposition	8	A. Yes.
9	continued as follows:)	9	Q. Before that it paraphrase you saying
10	,	10	that you told the reporters "the company's study 01:16
11		11	authors should have told her," meaning you, "about
12		12	the extra data and allowed The Journal to decide
13		13	just what to publish."
14		14	Did you tell the reporter basically
15		15	that same thing? 01:17
16		16	A. Yes.
17		17	Q. And do you still agree with that?
18		18	A. Yes.
19		19	
			Q. I show the witness now what's previously
20		20	been marked as Exhibit 10. (Document tendered to 01:17
21		21	the witness.)
		22	Once again, I'm just going to ask
22			
23		23	you about your quote on the second page, second
		23 24	you about your quote on the second page, second paragraph, but you're welcome to read the whole

Pharmacia None Page 45 - 48

	49		
1	thing if you'd like. 01:17	1	through Exhibit 24 now? 01:23
2	A. Let me put it in context.	2	A. Yes.
3	Q. Sure. For the record, this is a	3	Q. It's a chain of e-mails. Regarding the
4	transcript of an interview from WNBC-TV in New	4	last e-mail, does it purport to summarize the
5	York City. 01:18	5	meeting between you and Michael Friedman and Ken 01:24
6	A. Yes.	6	Verburg that we discussed earlier that occurred on
7	Q. I'd like to direct you to the second	7	August 21, 2001?
8	page, Bates number ending 653. The second	8	A. Yes.
9	paragraph at the top of the page has a quote from	9	Q. And you've read through it now; is that
10	you. It says "If they had twelve months of data 01:18	10	correct? 01:24
11	and didn't tell me, I'm going to be very upset.	11	A. Yes, I did.
12	If we cannot have a level of trust in the	12	Q. Does it jog your memory at all about
13	investigators, we might as well pack it in." Do	13	what happened at that meeting?
14	you see that?	14	A. Yes.
15	A. Yes. 01:19	15	Q. Is there anything that you read in this 01:24
16	Q. And is that an accurate quote?	16	summary that seems inconsistent with your
17	A. Yes.	17	recollection of the meeting?
18	Q. Is it your understanding now that they	18	A. The part about "suffice it to say, by
19	did, in fact, have twelve months of data?	19	the end of the meeting both editors expressed
20	A. Yes. 01:19	20	greater confidence in our motives and activities." 01:24
21	Q. Why did you say that if you cannot have	21	Q. And you would say that's not accurate?
22	a level of trust in the investigators you might as	22	A. I don't believe that's accurate at all.
23	well pack it in?	23	Of course, he is, this is what he believes. It is
24	Because it is impossible for us to go	24	not what I believe.
1	through all the records of any study we get. I 01:19	1	Q. So at the end of the meeting in your 01:25
2			Q. 30 at the end of the meeting in your 01.23
	can't possibly go into the laboratories and check	2	opinion you had no greater confidence in
3	the lab data. I can't possibly look at the	3	opinion you had no greater confidence in defendants' motives and activities?
3 4	the lab data. I can't possibly look at the medical records of every patient. That's just	3 4	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they
3 4	the lab data. I can't possibly look at the	3 4 5	opinion you had no greater confidence in defendants' motives and activities?
3 4 5	the lab data. I can't possibly look at the medical records of every patient. That's just	3 4 5 6	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they understood what the expectation, what my 01:25 expectation and the expectation of JAMA and I
3 4 5 6 7	the lab data. I can't possibly look at the medical records of every patient. That's just impossible for me to do. 01:19 So I have to trust that the authors, the investigators, who send material to	3 4 5 6 7	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they understood what the expectation, what my 01:25 expectation and the expectation of JAMA and I believe other similar peer-review journals expect,
3 4 5 6 7	the lab data. I can't possibly look at the medical records of every patient. That's just impossible for me to do. 01:19 So I have to trust that the authors, the investigators, who send material to me, are telling the truth and providing the data	3 4 5 6 7 8	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they understood what the expectation, what my output
3 4 5 6 7	the lab data. I can't possibly look at the medical records of every patient. That's just impossible for me to do. 01:19 So I have to trust that the authors, the investigators, who send material to me, are telling the truth and providing the data to the best of their ability fully and completely.	3 4 5 6 7	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they understood what the expectation, what my 01:25 expectation and the expectation of JAMA and I believe other similar peer-review journals expect, and that they said that they would make sure Dr. Silverstein would respond, not that they would
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the lab data. I can't possibly look at the medical records of every patient. That's just impossible for me to do. 01:19 So I have to trust that the authors, the investigators, who send material to me, are telling the truth and providing the data to the best of their ability fully and completely. Q. And did the defendants do that with 01:20 regard to the JAMA article? A. No. MR. HALPER: Object as to form. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 24. 01:20 (WHEREUPON Deposition Exhibit No. 24 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. For the record, Exhibit 24 is an e-mail 01:20 from Joy Dicker, D-I-C-K-E-R, to Mona Wahba dated	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	opinion you had no greater confidence in defendants' motives and activities? A. I had greater confidence that they understood what the expectation, what my 01:25 expectation and the expectation of JAMA and I believe other similar peer-review journals expect, and that they said that they would make sure Dr. Silverstein would respond, not that they would write the letter. 01:25 Q. When you say that Dr. Silverstein would respond, do you mean that his signature would be on the letter or that he would actually write the letter? A. I don't sign anything that I don't write 01:26 or at least do the first draft or dictate or it's part of a meeting in which we exchange thoughts and I say in general this is what I need. For the most part, I write my own letters but occasionally it will be a group. But 01:26 if I receive something and the signatories had no

Pharmacia None Page 49 - 52

	53			5
	hat you expected to receive, do you mean the one 01:27	1	wherewithal to do the investigation and then tell 01:30	
2 t	hat would be published in JAMA as a response to	2	me that the investigation proved that what I was	
3 t	he other letters to the editor?	3	given was accurate.	
4	A. Yes. That's one of the things we	4	Q. Was that a change in policy for JAMA?	
5 0	discussed. That's primarily what we discussed, as 01:27	5	A. Yes. 01:31	
6 a	a matter of fact, because it was their explanation	6	Q. When did that change in policy occur	
7 c	of why the information came in as such.	7	officially?	
8	Q. I'd like you to please look at the	8	A. We had discussed it for a while. I	
9 s	second page of Exhibit 24, Bates number ending	9	think it was, I don't know the exact date, but	
10 6	331. Do you see Item No. 5 on that page? 01:27	10	we've had it for maybe two or three years now. 01:31	
11	A. Yes.	11	Q. So it was not in place at the time the	
12	Q. I'm going to just read the first	12	JAMA article was published?	
13 s	sentence into the record. It says "In order to	13	A. No.	
14 c	counter the lack of credibility and cynicism of	14	Q. At the time you had the meeting with	
15 c	our critics, she suggested that we have the raw 01:27	15	Dr. Verburg and Dr. Friedman, did you then apply 01:31	
	data set independently analyzed by a statistician	16	that requirement to Pharmacia specifically before	
	inaffiliated with the study." Do you see that?	17	it was applying to everyone else?	
18	A. Yes.	18	A. No. I didn't apply, this paper had	
19	Q. Did you make that suggestion?	19	already been published. As such, it was not	
20	A. What I said to her was that one of the 01:28	20	withdrawn because what was in the data, I had no 01:31	
	hings, or to him, excuse me, that we were	21	· ·	
			reason to believe that there was any question	
	contemplating, we JAMA, having a requirement for	22	about the analysis of the data that were analyzed.	
	slinical trials that we would not accept the	23	And therefore, I couldn't pull this paper because	
24 s	tatistical analysis if it had been performed only	24	it was false in what was presented. But I did	
	54	,		
	by the sponsor, especially if it was a for-profit 01:28	1	require that the investigators respond to the 01:32	
2 s	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were	2	statements made in the two letters to the editor,	
2 s	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all	2	statements made in the two letters to the editor, to put this in context.	
2 s 3 g 4 t	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all the data were provided or whatever data thought	2 3 4	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and	
2 s 3 g 4 t	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all	2	statements made in the two letters to the editor, to put this in context.	
2 s 3 g 4 tl 5 r	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all the data were provided or whatever data thought	2 3 4	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and	
2 s 3 g 4 tl 5 r 6 v	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all the data were provided or whatever data thought necessary by a faculty statistician, that the data 01:29	2 3 4 5	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and Dr. Friedman that in order for further articles to 01:32	
2 s 3 g 4 tl 5 n 6 v 7 v	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all the data were provided or whatever data thought necessary by a faculty statistician, that the data 01:29 would be provided to him or her and that he or she	2 3 4 5 6	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and Dr. Friedman that in order for further articles to 01:32 be published about the CLASS study, that they	
2 s 3 g 4 tl 5 r 6 v 7 v 8 tl	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were going to accept a study it would only be after all the data were provided or whatever data thought necessary by a faculty statistician, that the data 01:29 would be provided to him or her and that he or she would re-analyze in any way they thought and that	2 3 4 5 6 7	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and Dr. Friedman that in order for further articles to be published about the CLASS study, that they would have to meet the independent analysis	
2 s 3 9 4 til 5 r 6 v 7 v 8 til 9 a	by the sponsor, especially if it was a for-profit 01:28 sponsor, that we would require that if we were spong to accept a study it would only be after all the data were provided or whatever data thought necessary by a faculty statistician, that the data 01:29 would be provided to him or her and that he or she would re-analyze in any way they thought and that they would then verify that the statistical	2 3 4 5 6 7 8	statements made in the two letters to the editor, to put this in context. Q. Did you tell Dr. Verburg and Dr. Friedman that in order for further articles to be published about the CLASS study, that they would have to meet the independent analysis requirement that you just said?	
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	57		
1	A. No. 01:33	1	Q. Okay. In the third paragraph of Exhibit 01:37
2	MR. MONTGOMERY: I ask the Court	2	25, there's a mention of informative censoring?
3	Reporter to mark what will be Exhibit 25.	3	A. Did I read this? Yes.
4	(WHEREUPON Deposition Exhibit	4	Q. No, no. I'm pointing out the phrase
5	No. 25 was marked as of 01:34	5	"informative censoring." Are you familiar with 01:37
6	1/12/2007.)	6	that phrase?
7	BY MR. MONTGOMERY:	7	A. I generally know what it means. I don't
8	Q. For the record, Exhibit 25 is an e-mail	8	know what it means in this particular message.
9	from James Lefkowith, L-E-F-K-O-W-I-T-H, to	9	Q. So do you have an understanding of
10	Michael Friedman and Kenneth Verburg dated 01:34	10	whether informative censoring is relative to why 01:38
11	August 20, 2001. (Document tendered to the	11	defendants did not publish the full CLASS study
12	witness.)	12	data in the JAMA article?
13	Have you had a chance to read	13	A. I have an understanding of how they
14	through Exhibit 25?	14	might believe that informative censoring would be
15	A. Yes. 01:35	15	relative to what was published. 01:38
16	Q. Have you ever seen this before?	16	Q. Relevant you mean?
17	A. No. Have I seen those words or words	17	A. Why they might believe it was relative
18	similar to it?	18	and relevant, not relative, relevant to, why they
19	Q. On this document.	19	might believe it was relevant.
20	A. Yes, but I've never seen this document. 01:35	20	Q. And what's that understanding? 01:38
21	Q. So were representations essentially	21	A. That sometimes you have to in your
22	similar to what's memorialized in Exhibit 25 made	22	statistical analysis or the way you describe
23	to you at the meeting you had with Drs. Friedman	23	something, to make it easier for the reader to
24	and Verburg?	24	understand the true finding, that you don't go
	58		
1	A. Excuse me. Is this related to, does 01:35	1	into extreme detail and instead you make it 01:39
1 2		1 2	
	A. Excuse me. Is this related to, does 01:35		into extreme detail and instead you make it 01:39
2	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them?	2	into extreme detail and instead you make it 01:39 simpler. That's generally what it means.
2	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them? Q. Yes.	2	into extreme detail and instead you make it 01:39 simpler. That's generally what it means. MR. MONTGOMERY: I'd like to ask the
2 3 4	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them? Q. Yes. A. We didn't discuss this with them.	2 3 4	into extreme detail and instead you make it 01:39 simpler. That's generally what it means. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 26.
2 3 4 5	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them? Q. Yes. A. We didn't discuss this with them. What I discussed with Drs. Friedman 01:35	2 3 4 5	into extreme detail and instead you make it simpler. That's generally what it means. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 26. (WHEREUPON Deposition Exhibit 01:40
2 3 4 5 6	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them? Q. Yes. A. We didn't discuss this with them. What I discussed with Drs. Friedman 01:35 and Verburg was just generally, they were	2 3 4 5 6	into extreme detail and instead you make it simpler. That's generally what it means. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 26. (WHEREUPON Deposition Exhibit 01:40 No. 26 was marked as of
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2 3 4 5 6 7 8 9 10 11	A. Excuse me. Is this related to, does 01:35 this reflect what we discussed with them? Q. Yes. A. We didn't discuss this with them. What I discussed with Drs. Friedman 01:35 and Verburg was just generally, they were discussing why they did six months and different kinds of words, and I said it's up to you, it's up to your authors, the scientists who did this study, the investigators, to explain why what they 01:36 did meets the requirement in reply to the two	2 3 4 5 6 7 8 9 10	into extreme detail and instead you make it simpler. That's generally what it means. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 26. (WHEREUPON Deposition Exhibit 01:40 No. 26 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. For the record, Exhibit 26 is an unsigned draft of a letter dated September 6, 01:40 2001, to Dr. DeAngelis from Steven Geis.
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Pharmacia None Page 57 - 60

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1	address specifically whether the data presented 01:42	1	manuscript meeting. So it had to be before we got 01:46
2	and conclusions drawn in the JAMA manuscript are	2	the manuscript.
3	accurate and are comparable to the description of	3	Q. I can refresh your memory actually. The
4	GI safety and overall safety obtained from the	4	really thick exhibit, Exhibit 21.
5	longer term follow-up results." Do you see that? 01:42	5	A. Oh, May 2000. 01:46
6	A. Yes.	6	Q. Underneath it, the study dates.
7	Q. Do you have any understanding whether	7	A. September '98 to 17 March 2000. So
8	such an independent review ever took place?	8	this
9	A. Not to my knowledge.	9	Q. So if that is correct, then the meeting
10	MR. MONTGOMERY: I'd like to ask the 01:43	10	memorialized in Exhibit 27, does it appear that 01:47
11	Court Reporter to mark what will be Exhibit 27.	11	that took place before the CLASS study was
12	(WHEREUPON Deposition Exhibit	12	completed?
13	No. 27 was marked as of	13	A. Right.
	1/12/2007.)	14	
14			MR. HALPER: I'll object on foundation.
15	BY MR. MONTGOMERY: 01:43	15	BY MR. MONTGOMERY: 01:47
16	Q. Once again, this is a long document, so	16	Q. Looking at the second to last page of
17	like I said, if you want to read the whole thing,	17	Exhibit 27, Bates number ending 816, do you see
18	that's fine. For the record, it's an e-mail with	18	towards the bottom of the page there's a bullet
19	three attachments from Carolyn Wilson to George	19	that says "Trial Design Issues"?
20	Geis and a number of other individuals dated 01:43	20	A. Yes. 01:47
21	March 20, 2000. (Document tendered to the	21	Q. And then underneath that the third
22	witness.)	22	bullet down says "Worse case. We have to attack
23	I'm actually only going to ask you	23	the trial design if we do not see the results we
24	about the third attachment, which is the last two	24	want." Do you see that?
	•	62	
1	pages of this document. I'm actually only going 01:44	1	A. Yes. 01:47
2			
	to ask you about that first page. You're free to	2	Q. Do you have an understanding of what
3	to ask you about that first page. You're free to read the rest if you want to.	2	
3			Q. Do you have an understanding of what
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4	read the rest if you want to. Does this appear to be notes of the meeting of the CLASS steering committee? 01:45	3 4	Q. Do you have an understanding of what "attack the trial design" means in that context? MR. HALPER: Objection, foundation. THE WITNESS: I don't know specifically 01:47
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Pharmacia None Page 61 - 64

		65	67
1	MR. MONTGOMERY: I'd like to ask the 01:48	1	MR. MONTGOMERY: You can do that. 01:51
2	Court Reporter to mark what will be Exhibit 28.	2	MR. HALPER: Yes, right.
3	(WHEREUPON Deposition Exhibit	3	BY MR. MONTGOMERY:
4	No. 28 was marked as of	4	Q. I'd like you to look at the paragraph
5	1/12/2007.) 01:49	5	beginning "With a bit of data massage." I'm going 01:51
6	BY MR. MONTGOMERY:	6	to read it into the record, the first sentence in
7	Q. This is another rather lengthy document.	7	any event. "With a bit of data massage, what
8	I can direct you to the part that I'm going to ask	8	Steve Geis and his team have done is to focus on
9	you about, but then you can read as much as you	9	the six-month data, for no other reason that it
10	want. It is the third page, Bates number ending 01:49	10	happens to look better, and this time they 01:51
11	477, and the third full paragraph in that starting	11	concentrate on the nonaspirin-treated patients,
12	"With a bit of data massage." (Document tendered	12	and ignore the fact that at no time interval did
13	to the witness.)	13	we see a statistically significant difference with
14	For the record, Exhibit 28 is an	14	diclofenac, whether one looks at patients taking
15	e-mail chain beginning with an e-mail from James 01:49	15	aspirin or not, at six or at twelve months." 01:52
16	Lefkowith to Emilio Arbe, A-R-B-E, dated	16	Did defendants disclose any of this
17	September 28, 2000.	17	information to you prior to the publication of the
18	A. I read the paragraph, yes.	18	JAMA article?
19	A. Head the paragraph, yes. Q. Have you read enough to understand the	19	MR. HALPER: Objection to form.
20	context? 01:50	20	THE WITNESS: No. 01:52
21	A. I can understand the context, yes.	21	BY MR. MONTGOMERY:
22		22	
	Q. Okay. I'll represent to you, this is		Q. Did defendants ever disclose this
23 24	one of the things you just have to take my word for it, that Emilio Arbe was a medical director in	23	information to you after the publication of the JAMA article?
	To It, that Elimio Tube was a medical director in	24	or with carriers
		I .	
		66	68
1	the 01:50	1	A. No. 01:52
2	MR. HALPER: No, no, you can't	1 2	A. No. 01:52 MR. HALPER: Objection to form.
	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can.	1 2 3	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY:
2	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you	1 2	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion
2	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can.	1 2 3	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY:
2 3 4	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. MR. MONTGOMERY: I'm going to represent	1 2 3 4	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion
2 3 4 5	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. 01:50	1 2 3 4 5	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52
2 3 4 5 6	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. MR. MONTGOMERY: I'm going to represent	1 2 3 4 5 6	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object.
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2 3 4 5 6 7 8 9	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. 01:50 MR. MONTGOMERY: I'm going to represent to her whatever I want to represent to her. MR. HALPER: Well, I don't think there's any basis to do it. I think it's an improper question. 01:50	1 2 3 4 5 6 7 8 9	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object. THE WITNESS: Excuse me. BY MR. MONTGOMERY: Q. In your opinion is the conduct described in the language I just read to you proper 01:52
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2 3 4 5 6 7 8 9 10 11 12	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. 01:50 MR. MONTGOMERY: I'm going to represent to her whatever I want to represent to her. MR. HALPER: Well, I don't think there's any basis to do it. I think it's an improper question. 01:50 MR. MONTGOMERY: I haven't asked her a question all right. Your objection is noted.	1 2 3 4 5 6 7 8 9 10 11	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object. THE WITNESS: Excuse me. BY MR. MONTGOMERY: Q. In your opinion is the conduct described in the language I just read to you proper 01:52 scientific behavior? MR. HALPER: Objection, no foundation,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. MR. MONTGOMERY: I'm going to represent to her whatever I want to represent to her. MR. HALPER: Well, I don't think there's any basis to do it. I think it's an improper question. 01:50 MR. MONTGOMERY: I haven't asked her a question all right. Your objection is noted. BY MR. MONTGOMERY: Q. I'm going to represent to you that he was a medical director at Pfizer at this time. 01:51 MR. HALPER: I'm going to object to that representation. It's also not correct.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object. THE WITNESS: Excuse me. BY MR. MONTGOMERY: Q. In your opinion is the conduct described in the language I just read to you proper 01:52 scientific behavior? MR. HALPER: Objection, no foundation, assumes facts not in evidence, and to form. THE WITNESS: No. MR. MONTGOMERY: I'd like to ask the 01:52 Court Reporter to mark what will be Exhibit 29. (WHEREUPON Deposition Exhibit
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. MR. MONTGOMERY: I'm going to represent to her whatever I want to represent to her. MR. HALPER: Well, I don't think there's any basis to do it. I think it's an improper question. 01:50 MR. MONTGOMERY: I haven't asked her a question all right. Your objection is noted. BY MR. MONTGOMERY: Q. I'm going to represent to you that he was a medical director at Pfizer at this time. 01:51 MR. HALPER: I'm going to object to that representation. It's also not correct. MR. MONTGOMERY: At Pharmacia? MR. HALPER: Well, you don't seem to care about whether you're correct or not. 01:51	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object. THE WITNESS: Excuse me. BY MR. MONTGOMERY: Q. In your opinion is the conduct described in the language I just read to you proper 01:52 scientific behavior? MR. HALPER: Objection, no foundation, assumes facts not in evidence, and to form. THE WITNESS: No. MR. MONTGOMERY: I'd like to ask the 01:52 Court Reporter to mark what will be Exhibit 29. (WHEREUPON Deposition Exhibit No. 29 was marked as of 1/12/2007.) BY MR. MONTGOMERY: 01:53
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HALPER: No, no, you can't MR. MONTGOMERY: I can. MR. HALPER: No, you can't, unless you want to switch seats and testify. MR. MONTGOMERY: I'm going to represent to her whatever I want to represent to her. MR. HALPER: Well, I don't think there's any basis to do it. I think it's an improper question. 01:50 MR. MONTGOMERY: I haven't asked her a question all right. Your objection is noted. BY MR. MONTGOMERY: Q. I'm going to represent to you that he was a medical director at Pfizer at this time. 01:51 MR. HALPER: I'm going to object to that representation. It's also not correct. MR. MONTGOMERY: At Pharmacia? MR. HALPER: Well, you don't seem to care about whether you're correct or not. 01:51	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. 01:52 MR. HALPER: Objection to form. BY MR. MONTGOMERY: Q. In your opinion MR. NELSON: When he asks the question, 01:52 wait a second so he can object. THE WITNESS: Excuse me. BY MR. MONTGOMERY: Q. In your opinion is the conduct described in the language I just read to you proper 01:52 scientific behavior? MR. HALPER: Objection, no foundation, assumes facts not in evidence, and to form. THE WITNESS: No. MR. MONTGOMERY: I'd like to ask the 01:52 Court Reporter to mark what will be Exhibit 29. (WHEREUPON Deposition Exhibit No. 29 was marked as of 1/12/2007.) BY MR. MONTGOMERY: 01:53

Pharmacia None Page 65 - 68

			-	
	69			71
1	For the record, this is a copy of a 01:53	1	nice but it speaks okay I guess. 01:58	
2	U.S. News & World Report article dated	2	Q. Is there anything in the quotes that you	
3	September 17, 2001, entitled "Physicians are	3	read from this transcript that you now disagree	
4	putting a stop to the publication of misleading	4	with?	
5	drug data." 01:53	5	A. No. 01:58	
6	Have you seen this article before?	6	MR. MONTGOMERY: I'd like to ask the	
7	A. Yes.	7	Court Reporter to mark what will be Exhibit 31.	
8	Q. Did you read it when it came out?	8	(WHEREUPON Deposition Exhibit	
9	A. Yes.	9	No. 31 was marked as of	
10	Q. I'd like to direct you to your quote at 01:53	10	1/12/2007.) 01:59	
11	the bottom of the first paragraph of Exhibit 29.	11	BY MR. MONTGOMERY:	
12	It says "The company had twelve months of data and	12	Q. I'm only going to be asking you about	
13	didn't tell me. They know how upset I am." Do	13	the third paragraph of Dr. Silverstein, Simon, and	
14	you see that?	14	Faich's letter. (Document tendered to the	
15	A. Yes. 01:54	15	witness.) 01:59	
16	Q. Is that an accurate quote?	16	A. One second.	
17	A. Yes.	17	Q. For the record, Exhibit 31 is a number	
18	Q. Do you still believe that the company	18	of letters to the editor from the November 21,	
19	had twelve months of data and did not tell you?	19	2001 issue of JAMA?	
20	A. Yes. 01:54	20	A. I'm missing a page. 02:00	
21	MR. MONTGOMERY: I'd like to ask the	21	MR. HALPER: Me too.	
22	Court Reporter to mark what will be Exhibit 30.	22	BY MR. MONTGOMERY:	
23		23	Q. Are you? Which page?	
24		24	A. 2399.	
	70			7:
1	70 (WHEREUPON Deposition Exhibit 01:54	1	MR. NELSON: The ones you're talking 02:00	72
1 2		1 2		72
	(WHEREUPON Deposition Exhibit 01:54		MR. NELSON: The ones you're talking 02:00	7:
2	(WHEREUPON Deposition Exhibit 01:54 No. 30 was marked as of	2	MR. NELSON: The ones you're talking 02:00 about.	7:
2	(WHEREUPON Deposition Exhibit 01:54 No. 30 was marked as of 1/12/2007.)	2	MR. NELSON: The ones you're talking 02:00 about. THE WITNESS: Of JAMA it would be, well,	7:
2 3 4	(WHEREUPON Deposition Exhibit 01:54 No. 30 was marked as of 1/12/2007.) BY MR. MONTGOMERY:	2 3 4	MR. NELSON: The ones you're talking 02:00 about. THE WITNESS: Of JAMA it would be, well, it's 1957 and then it goes to 1959 and what I was	7:
2 3 4 5	(WHEREUPON Deposition Exhibit 01:54 No. 30 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. Once again, a long document. I'm only 01:54	2 3 4 5	MR. NELSON: The ones you're talking 02:00 about. THE WITNESS: Of JAMA it would be, well, it's 1957 and then it goes to 1959 and what I was looking for is not here. 02:00	7:
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2 3 4 5 6 7	(WHEREUPON Deposition Exhibit 01:54 No. 30 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. Once again, a long document. I'm only 01:54 going to ask you what you were quoted as saying on the third page, Bates number ending 617.	2 3 4 5 6 7	MR. NELSON: The ones you're talking 02:00 about. THE WITNESS: Of JAMA it would be, well, it's 1957 and then it goes to 1959 and what I was looking for is not here. 02:00 MR. HALPER: We can MR. MONTGOMERY: Can we go off the	7:
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Pharmacia None Page 69 - 72

	73		
1	Q. I'd like to direct you to the top of the 02:02	1	majority of our readers are not bio-statisticians 02:06
2	second column, the sentence starting "Fourth."	2	and could not necessarily understand that such
3	"Fourth and most important, after the blind was	3	analyses may be acceptable statistically to some
4	broken it became clear that there was a	4	if you understand. It's not what you would depend
5	differential dropout rate of NSAID patients with 02:02	5	that the average physician or clinician would 02:06
6	GI intolerance or symptomatic ulcers, suggesting	6	understand that these data are what they seem to
7	that those patients at greatest risk were no	7	be.
8	longer in the study. This type of informative	8	The bottom line is as a physician,
9	censoring leads to a bias, which potentially	9	I'm not a bio-statistician but I'm a fairly
10	invalidates statistical analysis of complicated 02:02	10	sophisticated physician when it comes to being a 02:07
11	ulcers by the log rank test." Do you see that?	11	clinical researcher, I would never change my
12	A. Yes.	12	practice or adopt something based on this kind of
13	Q. Do you have a general understanding of	13	analysis. And I seriously doubt that we ever
14	what that point is?	14	would have published it knowing this.
15	A. Yes. 02:02	15	Q. Knowing that defendants were relying on 02:07
16	Q. Can you explain it to me in laymen's	16	the informative censoring theory?
17	terms?	17	A. Exactly. But they explained it here.
18	A. It's a statistical argument that because	18	Q. You can put this aside for now, but
19	the people who benefit drop out sooner, that those	19	we're going to come back to it so you'll want to
20	who remain in longer are the ones that don't have 02:03	20	be able to reach it. 02:07
21	as great a benefit.	21	MR. MONTGOMERY: I'd like to ask the
22	That's as simple as I can put it	22	Court Reporter to mark what will be Exhibit 32.
23		23	Court Nepotter to mark what will be Exhibit 32.
24	without giving you a course in bio-sadistics as it's called.	23	
	74		
1	Q. Please don't. 02:03	1	(WHEREUPON Deposition Exhibit 02:08
2	For the purposes of this	2	No. 32 was marked as of
3	deposition, can we just refer to that as	3	1/12/2007.)
4	defendants' informative censoring theory?	1	,
5	defendants informative censoring theory:	4	BY MR. MONTGOMERY:
	A. Yes, yes. 02:03	4 5	BY MR. MONTGOMERY: Q. I'm only going to ask you about the 02:08
6			
6 7	A. Yes, yes. 02:03	5	Q. I'm only going to ask you about the 02:08
	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring	5 6	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read
7	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that	5 6 7	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document
7 8	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that justify publishing only six months of data in the	5 6 7 8	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document tendered to the witness.)
7 8 9	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that justify publishing only six months of data in the JAMA article?	5 6 7 8 9	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document tendered to the witness.) A. The entire page you want me to read?
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7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that justify publishing only six months of data in the JAMA article? A. Had they informed us that that was what 02:04 they were doing, we would have to decide whether we wanted to publish it or not because it's a different way of analyzing data. And without seeing what the data look like in the various phases of doing this, it's extremely difficult to 02:04 see what they did. I can tell you that in general in a clinical trial this is not an acceptable form of statistical analysis for JAMA. Q. And why is that? A. Because I think it portrays a finding 02:05	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document tendered to the witness.) A. The entire page you want me to read? Q. Really the first column. 02:08 Okay. Looking at the second page of Exhibit 32, I'd like you to look at the last full paragraph in the first column that starts "Publishing." "Publishing and distributing overoptimistic short-term data using post hoc 02:11 changes to the protocol, while omitting disappointing long-term data of two trials, which involved large numbers of volunteers, is misleading." Do you see that? A. Yes. 02:11
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that justify publishing only six months of data in the JAMA article? A. Had they informed us that that was what 02:04 they were doing, we would have to decide whether we wanted to publish it or not because it's a different way of analyzing data. And without seeing what the data look like in the various phases of doing this, it's extremely difficult to 02:04 see what they did. I can tell you that in general in a clinical trial this is not an acceptable form of statistical analysis for JAMA. Q. And why is that? A. Because I think it portrays a finding 02:05 that is not clinically accurate. And since JAMA,	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document tendered to the witness.) A. The entire page you want me to read? Q. Really the first column. 02:08 Okay. Looking at the second page of Exhibit 32, I'd like you to look at the last full paragraph in the first column that starts "Publishing." "Publishing and distributing overoptimistic short-term data using post hoc 02:11 changes to the protocol, while omitting disappointing long-term data of two trials, which involved large numbers of volunteers, is misleading." Do you see that? A. Yes. 02:11 Q. Do you agree with that assessment?
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, yes. 02:03 Q. Okay. Even if the informative censoring theory were correct, in your mind would that justify publishing only six months of data in the JAMA article? A. Had they informed us that that was what 02:04 they were doing, we would have to decide whether we wanted to publish it or not because it's a different way of analyzing data. And without seeing what the data look like in the various phases of doing this, it's extremely difficult to 02:04 see what they did. I can tell you that in general in a clinical trial this is not an acceptable form of statistical analysis for JAMA. Q. And why is that? A. Because I think it portrays a finding 02:05	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I'm only going to ask you about the 02:08 second page of Exhibit 32, but feel free to read as much of it as you feel is necessary. (Document tendered to the witness.) A. The entire page you want me to read? Q. Really the first column. 02:08 Okay. Looking at the second page of Exhibit 32, I'd like you to look at the last full paragraph in the first column that starts "Publishing." "Publishing and distributing overoptimistic short-term data using post hoc 02:11 changes to the protocol, while omitting disappointing long-term data of two trials, which involved large numbers of volunteers, is misleading." Do you see that? A. Yes. 02:11

Pharmacia None Page 73 - 76

	77		
1 A	A. It means after the fact. 02:11	1	authors. 02:13
2 0	Q. Do you agree that this is an accurate	2	Q. What actually happened?
	cription of what defendants did in this case	3	A. Well, if you go to the FDA data, this is
	n regard to the JAMA article?	4	what they're talking about right here, it says the
5	MR. HALPER: Objection to form. 02:11	5	absolute number of dropouts and withdrawals, both 02:13
6	THE WITNESS: Yes.	6	overall and due to GI adverse events, increased
	MR. MONTGOMERY:	7	gradually without any sudden increase after six
	Q. Okay. Now, I'd like you to look at the	8	months and withdrawal rates stayed roughly
	t full paragraph in that column that starts	9	constant in different treatment groups during the
	/o issues." 02:11	10	entire follow-up period, meaning you would have 02:14
	A. Yes.	11	expected to see a big change, and that's not what
12 G	Q. The third sentence begins "They argued,"	12	happened.
13 and	l it's talking about the authors. I'll read it	13	Q. All right. I'd like you to look at the
14 into	the record. It says "They argued that a	14	next sentence "In addition, there was no robust
15 larg	ge and differential dropout rate had occurred 02:12	15	evidence that gastrointestinal adverse events were 02:14
16 duri	ing the later stage of the trial, which	16	actually a risk factor for ulcer rated
17 dep	oleted patients with gastrointestinal adverse	17	complications." Do you see that?
18 eve	ents preferentially in the groups taking	18	A. Yes.
19 non	steroidal anti-inflammatory drugs and that	19	Q. In your opinion is that relevant to the
20 thes	se patients were at higher risk of developing 02:12	20	informative censoring theory? 02:14
21 ulce	er related complications." Do you see that?	21	A. It could be.
22 A	A. Yes.	22	Q. And why is that?
23 C	Q. Is that a restatement of the informative	23	A. By virtue of what it says. If you don't
	soring theory we discussed earlier?	24	have robust evidence for something, I mean your
	78		
1 A	78 A. Essentially, yes. 02:12	1	robust may not be my robust. 02:14
		1 2	robust may not be my robust. 02:14 MR. MONTGOMERY: Let's go off the
2 0	A. Essentially, yes. 02:12		•
2 C 3 abs	A. Essentially, yes. 02:12 Q. The next sentence says "However, the	2	MR. MONTGOMERY: Let's go off the
2 G 3 abs 4 ove	A. Essentially, yes. 02:12 Q. The next sentence says "However, the solute number of dropouts and withdrawals, both	2	MR. MONTGOMERY: Let's go off the record.
2 0 3 abs 4 ove 5 eve	A. Essentially, yes. 02:12 Q. The next sentence says "However, the solute number of dropouts and withdrawals, both orall and due to gastrointestinal adverse	2 3 4	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the
2 G 3 abs 4 ove 5 eve 6 incr	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both strall and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates	2 3 4 5	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3.
2 G 3 abs 4 ove 5 eve 6 incr 7 stay	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment	2 3 4 5 6	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15
2 G 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do	2 3 4 5 6 7	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin
2 C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 9 you	A. Essentially, yes. 02:12 D. The next sentence says "However, the solute number of dropouts and withdrawals, both erall and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that?	2 3 4 5 6 7 8	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of
2 C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grot 9 you	A. Essentially, yes. 02:12 2. The next sentence says "However, the colute number of dropouts and withdrawals, both small and due to gastrointestinal adverse souts, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12	2 3 4 5 6 7 8 9	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21
2 C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 9 you 10 A	A. Essentially, yes. 02:12 2. The next sentence says "However, the colute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates eved roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12	2 3 4 5 6 7 8 9 10	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is
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2 G 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 9 you 10 A 11 G 12 info	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the primative censoring theory in your opinion? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath.
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2 C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 9 you 10 A 11 C 112 info 13 A 14 C 15 A 16 sub	A. Essentially, yes. 02:12 2. The next sentence says "However, the colute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the primative censoring theory in your opinion? A. Yes. 2. And why is that? A. Because you would expect to see a 02:13 estantial decrease, and it usually would occur	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about
2	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the ormative censoring theory in your opinion? A. Yes. 2. And why is that? A. Because you would expect to see a 02:13 istantial decrease, and it usually would occur a more rapid dropoff.	2 3 4 5 6 7 8 9 10 11 12 13 14	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about previously concerning informative censoring, in
2 C C 3 abs 4 ove 5 eve 6 incr 7 stay 8 group 10 A A 11 C C 112 info 13 A A 14 C C A 15 A A 16 sub 17 in a 18 C C	A. Essentially, yes. 02:12 D. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 D. Is that relevant to you in the similar treatment ups during the entire follow-up period." A. Yes. 02:12 D. Is that relevant to you in the similar treatment ups during the entire follow-up period." A. Yes. 02:12 D. Is that relevant to you in the similar treatment ups during the open of the period	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about
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2 C C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 10 A 11 C C 13 A 14 C C 15 A 16 sub 17 in a 18 C C 19 A 20 it w	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both strall and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the formative censoring theory in your opinion? A. Yes. 2. And why is that? A. Because you would expect to see a 02:13 restantial decrease, and it usually would occur a more rapid dropoff. 2. At what point? A. Well, it depends where you are on the,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about previously concerning informative censoring, in your opinion is defendants' theory of informative censoring valid?
2 C C 3 abs 4 ove 5 eve 6 incr 7 stay 9 you 10 A 11 C C 12 info 13 A 14 C C 15 A 16 sub 17 in a 18 C 19 A 20 it w	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the formative censoring theory in your opinion? A. Yes. 2. And why is that? A. Because you would expect to see a 02:13 setantial decrease, and it usually would occur a more rapid dropoff. 2. At what point? A. Well, it depends where you are on the, couldn't be where the cutoff was made by where 02:13	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about previously concerning informative censoring, in your opinion is defendants' theory of informative censoring valid? MR. HALPER: Objection, foundation, and 02:22
2 C C 3 abs 4 ove 5 eve 6 incr 7 stay 8 grou 10 A 11 C 12 info 13 A 14 C 15 A 16 sub 17 in a 18 C 19 A 20 it wo 21 you 22	A. Essentially, yes. 02:12 2. The next sentence says "However, the solute number of dropouts and withdrawals, both small and due to gastrointestinal adverse ents, increased gradually, without any sudden 02:12 rease after six months, and withdrawal rates yed roughly constant in different treatment ups during the entire follow-up period." Do a see that? A. Yes. 02:12 2. Is that relevant to you in the entire censoring theory in your opinion? A. Yes. 2. And why is that? A. Because you would expect to see a 02:13 instantial decrease, and it usually would occur a more rapid dropoff. 2. At what point? A. Well, it depends where you are on the, ouldn't be where the cutoff was made by where 02:13 in would analyze.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. MONTGOMERY: Let's go off the record. THE VIDEOGRAPHER: We are off the record. The time now is 2:14. This will conclude 02:15 Videotape No. 3. (WHEREUPON a recess was taken.) THE VIDEOGRAPHER: This will begin Videotape No. 3 of the videotaped deposition of the Catherine DeAngelis taken on the 12th day of 02:21 January 2007, Case No. 03-1519. The time now is approximately 2:21 p.m., and I'll remind the witness she remains under oath. BY MR. MONTGOMERY: Q. Looking back at the second page of 02:21 Exhibit 32. In light of what we talked about previously concerning informative censoring, in your opinion is defendants' theory of informative censoring valid? MR. HALPER: Objection, foundation, and 02:22 to form.

Pharmacia None Page 77 - 80

	81			83
1	BY MR. MONTGOMERY: 02:22	1	get published, I'll say JAMA because I could speak 02:25	
2	Q. The theory of informative censoring.	2	about my own journal, or a journal like JAMA, that	
3	A. Is their theory?	3	we go to great pangs to assure that what we	
4	Q. Yes.	4	published is trustworthy. And, therefore, if they	
5	MR. HALPER: I would also object that 02:22	5	get it from JAMA, they know it's a very good study 02:25	
6	Dr. DeAngelis is here as a fact witness, not an	6	that can be trusted because we place our integrity	
7	expert witness, and the question goes to expert	7	behind them.	
8	testimony.	8	Q. Do pharmaceutical companies have detail	
9	BY MR. MONTGOMERY:	9	persons distribute reprints of some articles from	
10	Q. You can answer to the extent you are 02:22	10	JAMA and other journals? 02:25	
11	able to.	11	MR. HALPER: Objection, no foundation,	
12	A. Well, as a matter of fact, what I was	12	and I believe it also goes to expert testimony.	
13	going to say was my understanding, and I am not an	13	THE WITNESS: Well, that I disagree	
14	expert in statistical analysis, but in my	14	because I was in practice for a long time before I	
15	understanding it's an interesting way of applying 02:22	15	came here. 02:26	
16	it. Whether it's valid I can't say. But had I	16	I know that various pharmaceutical	
17	been informed of all this, it may very well have	17	and, well, pharmaceutical companies purchase	
18	changed the decision whether or not to publish in	18	reprints from JAMA. I also do know and have been	
19	JAMA.	19	handed, when I was at Hopkins in practice, handed	
20	Q. All right. Let's keep this one handy 02:23	20	reprints from various journals by pharmaceutical 02:26	
21	too. We'll be back to it, but we're done with it	21	detail people.	
22	for now.	22	BY MR. MONTGOMERY:	
23	MR. MONTGOMERY: I'd like to ask the	23	Q. And in your opinion does that sometimes	
24	Court Reporter to mark what will be Exhibit 33.	24	allow doctors to see articles that they otherwise	
	99			
1	82 (WHEREUPON Deposition Exhibit 02:23	1	wouldn't have had access to? 02:26	8
1 2	(WHEREUPON Deposition Exhibit 02:23	1 2	wouldn't have had access to? 02:26 A. Yes.	8
1 2 3	(WHEREUPON Deposition Exhibit 02:23 No. 33 was marked as of	1 2 3	A. Yes.	8
2	(WHEREUPON Deposition Exhibit 02:23 No. 33 was marked as of 1/12/2007.)	2	A. Yes. Q. Would you turn back to Exhibit 32,	8
2 3 4	(WHEREUPON Deposition Exhibit 02:23 No. 33 was marked as of 1/12/2007.) BY MR. MONTGOMERY:	2 3 4	A. Yes. Q. Would you turn back to Exhibit 32, please. Looking at the second page at the bottom,	8
2	(WHEREUPON Deposition Exhibit 02:23 No. 33 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. I'm just going to ask you about your 02:23	2	A. Yes. Q. Would you turn back to Exhibit 32, please. Looking at the second page at the bottom, there's a sentence that says "Consequently." Do 02:27	8
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	(WHEREUPON Deposition Exhibit 02:23 No. 33 was marked as of 1/12/2007.) BY MR. MONTGOMERY: Q. I'm just going to ask you about your 02:23 very first quote on the first page. For the record, Exhibit 33 is a July 14, 2005 transcript from National Public Radio. (Document tendered to the witness.) I'd like to read a quote into the 02:24 record. It's your first quote on the first page. It says "If a detail person working for a pharmaceutical company can hand a reprint of a publication from a high-powered journal like JAMA or NEJM to a doctor, that has a very significant 02:24 effect on the physician." Is that an accurate quote? Did you say that? A. Yes. Q. Do you still agree with it? 02:24 A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. Would you turn back to Exhibit 32, please. Looking at the second page at the bottom, there's a sentence that says "Consequently." Do 02:27 you see that sentence in the middle of the last paragraph? A. Yes, yes. Q. I'll read it into the record. "Consequently, CLASS may still be relied on by 02:27 many physicians without reference to these flaws." Do you see that? A. Yes. Q. Do you understand flaws to mean the criticisms that are described earlier in the 02:27 paper? A. That's what he means I assume. Q. Do you agree that at the time this article was published in the British Medical Journal that that observation was true? 02:28 MR. HALPER: Objection to form.	3

Pharmacia None Page 81 - 84

			De Angelis, Camenne 1/12/2007 11.00.00 A
	85		8
1	MR. MONTGOMERY: I'd like to have the 02:28	1	months. 02:33
2	Court Reporter mark what will be Exhibit 34.	2	Q. In the same sense, do you consider the
3	(WHEREUPON Deposition Exhibit	3	JAMA article that was printed to be a lie?
4	No. 34 was marked as of	4	A. No. The study as it exists with six
5	1/12/2007.) 02:28	5	month data arguably is accurate. If it was a lie 02:33
6	BY MR. MONTGOMERY:	6	and I could prove that what was in here is wrong,
7	Q. I'm only going to be asking you about	7	I would have pulled the paper.
8	the third page. For the record, Exhibit 34 is a	8	What is in here is, you notice that
9	transcript of a National Public Radio broadcast	9	the editorial that accompanied this, which is very
10	dated December 16, 2005. (Document tendered to 02:29	10	important, but if you have the editorial it's very 02:34
11	the witness.)	11	clear in that editorial this is exciting,
12	I'd like to direct you to the	12	preliminary news, stay tuned, essentially, he
13	middle of the third page of Exhibit 34, the middle	13	didn't say that, but it said we have to follow and
14	of the third page. In the middle there's a quote	14	see what happens over time.
15	where you say "They deliberately lied." Do you 02:31	15	So these data while the analysis I 02:34
16	see that?	16	think paints a picture that is arguably painted in
17	A. Yes.	17	a positive way, the analysis of the data the way
18	Q. Is that an accurate quote?	18	it was done, as far as I can tell, can be argued
19	A. If it's here, I said it.	19	as legitimate. Is it cherry-picking? I don't see
20	Q. Do you have any reason to believe you 02:31	20	the raw data, I have never seen the raw data. So 02:35
21	didn't say it?	21	I don't know what they meant by cherry-picking.
22	A. Oh, I very likely did say it. In fact,	22	If it meant that they only took the patients they
23	if it's here I believe it, yes, I said it.	23	wanted to or they only analyzed the patients they
24	Q. And who are you referring to in "they"?	24	wanted to, then this picture is absolutely false.
	86		88
1	A. The authors. 02:31	1	If the statistical analysis 02:35
2	Q. The authors of the JAMA article?	2	performed the way it was is accurate, then it
3	A. Yes.	3	means for six months what is projected in this
4	Q. And how did you mean they lied?	4	paper is accurate.
5	A. Forgive me, but I have to give you an 02:31	5	However, looking at it twelve 02:36
6	example. I'm Catholic, okay, and I was taught	6	months out, and this study was designed to look at
7	that when you admit to stealing something and you	7	not months it was designed to look at I believe it
8	say I stole a rope, make sure you also say there	8	was forty incidences, it took a little over a
9	was a horse behind the rope.	9	year, sixteen months I believe, to get to I think
10	So lying is if you only say I stole 02:32	10	they got finally to forty-four gastrointestinal 02:36
11	a rope and you neglect to say that there was a	11	bleeding references. That was the endpoint. And
12	horse behind the rope, and in that sense they lied	12	at that endpoint there was no difference. But at
13	because when we directly asked them, the way we	13	six months they had not reached that endpoint.
14	ask the question, the way the question was asked	14	And to have said this is a six-month study was an
15	to the author, do you have more than six months 02:32	15	interesting way to look at the data because that's 02:36
16	data or do you have more data, because they said	16	not, it was not designed as a six-month study, it
17	the study was complete at six months, they said to	17	was designed as a study to look at forty
18	us, the way they wrote it to us, we said our	18	incidences and it took more than a year, twelve
19	understanding is that this study is over, it's six	19	months, to reach that point.
20	months, is that true, and they said yes, you are 02:33	20	So extrapolating, they couldn't say 02:37
21	right, the study was finished after six months.	21	that it was a twelve month, they didn't know how
22	When we asked about patient information	22	long it would take to reach forty. It's possible
23	thereafter, they said patients could be followed	23	they could have reached forty incidences in six
24	further if they wanted to but the study is for six	24	months, but they didn't, it took them a year. And
2-1	tutale in they mained to but the study is for six		monato, bactrioy didire, it took didiri a your. And

Pharmacia None Page 85 - 88

	89		9
1	at that point there was no difference between this 02:37	1	you're quoted as saying "The authors actually lied 02:42
2	drug and the others.	2	to us." Is that correct?
3	Q. Would you agree that the JAMA article	3	A. Yeah. Is this supposedly something I
4	was misleading	4	said to them?
5	A. Yes. 02:37	5	Q. According to, let me read it again, yes. 02:42
6	Q for failing let me finish, please.	6	It says "The authors actually lied to us, said
7	Would you agree that the JAMA	7	Dr. Catherine DeAngelis, the publication's editor
8	article was misleading for failing to acknowledge	8	in chief."
9	the existence of post six-month data?	9	A. That's a quote taken from when is
10	A. Yes. 02:37	10	this? June of this year? JAMA wasn't happy. 02:42
11	Q. Okay. Going back to the third page of	11	That's a paraphrase of JAMA's editor isn't happy.
12	Exhibit 34, there's another quote further down the	12	The authors actually lied to us
13	page by you. It says "When they went out to	13	Q. The quote in the previous document was
14	twelve months, it turned out there was no	14	"they deliberately lied."
15	difference. And then we got into trouble and we 02:37	15	A. So all I can say is I do not recall 02:43
16	made them write a letter describing what they had	16	talking to these people. It looks like what we
17	done and admitting that they had lied to us."	17	say in editing a paraphrase of a previous
18	Is that an accurate quote, as far	18	publication. I'm not saying that I didn't talk to
19	as you can tell?	19	them because I speak to lots of people every day.
20	A. Yeah. 02:38	20	But Investor's Business Daily is not, I don't talk 02:43
21	Q. Do you still agree with it?	21	to people usually in this kind of thing. But it's
22	A. Yes. Only I don't think we were the	22	pretty close to what I said to somebody else.
23	only ones. We got in trouble because we were in	23	Q. Would you agree that the authors of the
24	trouble with ourselves because integrity means a	24	JAMA article did lie to you?
	90		9
1	90 lot to us, and people trust us. 02:38	1	9 A. Yes. 02:44
1 2			
	lot to us, and people trust us. 02:38	1	A. Yes. 02:44
2	lot to us, and people trust us. 02:38 MR. HALPER: Can I talk to you off the	1 2	A. Yes. 02:44 Q. Okay. We'll move on.
2	lot to us, and people trust us. 02:38 MR. HALPER: Can I talk to you off the record for a second?	1 2 3	A. Yes. 02:44 Q. Okay. We'll move on. MR. MONTGOMERY: I'd like to ask the
2 3 4	lot to us, and people trust us. MR. HALPER: Can I talk to you off the record for a second? MR. MONTGOMERY: Sure. Let's go off the	1 2 3 4	A. Yes. 02:44 Q. Okay. We'll move on. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 36.
2 3 4 5	lot to us, and people trust us. MR. HALPER: Can I talk to you off the record for a second? MR. MONTGOMERY: Sure. Let's go off the record. 02:38	1 2 3 4 5	A. Yes. 02:44 Q. Okay. We'll move on. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 36. (WHEREUPON Deposition Exhibit 02:44
2 3 4 5 6	lot to us, and people trust us. 02:38 MR. HALPER: Can I talk to you off the record for a second? MR. MONTGOMERY: Sure. Let's go off the record. 02:38 THE VIDEOGRAPHER: Okay. We are going	1 2 3 4 5	A. Yes. 02:44 Q. Okay. We'll move on. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 36. (WHEREUPON Deposition Exhibit 02:44 No. 36 was marked as of
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Pharmacia None Page 89 - 92

	00		
1 Q.	93 Does JAMA still maintain these forms? 02:45	1	(WHEREUPON Deposition Exhibit 02:48
	We don't have these forms from 2000, no.	2	No. 37 was marked as of
	How long do you keep them?	3	1/12/2007.)
	It depends what kind of document it is.	4	BY MR. MONTGOMERY:
	All right. I'd like you to look down at 02:46	5	Q. For the record, Exhibit 37 is an e-mail 02:48
	D on the first page. It says "To qualify	6	from Mona Wahba to Leland Loose dated February 16,
		7	2000. (Document tendered to the witness.)
	orship, you must check at least one box		· · · · · · · · · · · · · · · · · · ·
	n of the three categories of contributions	8	I'm only going to be asking you
	elow"; is that correct?	9	about the second full paragraph on the page, but
	That's correct. 02:46	10	read as much as you need to. 02:48
	So does that mean that in order to	11	A. "Not for a while yet," that one you
	as an author for JAMA, an author or a	12	mean?
	al author would have to be able to check	13	Q. Yes. I'd like to direct you to the
	c in Category 1, one box in Category 2, and	14	sentence, you can probably guess which one, the
	c in Category 3 of Section D? 02:46	15	second to the last, "Believe it or not, a draft 02:49
16 A. `		16	manuscript has already been written with a sort of
	What's the purpose of these	17	fill in the blanks depending on what actually
18 requirer	ments?	18	happens." Do you see that?
19 A. I	It's for us to be sure that each name,	19	A. Yes.
20 the nam	ne of each person on there, is legitimate to 02:46	20	Q. In your experience is that a typical 02:49
21 qualify a	as an author for JAMA. They must either	21	scientific practice?
22 participa	ated and take responsibility for either at	22	A. It depends what aspect. If it's the
23 least pa	art of the content, that they have to	23	first part, the introduction, pretty common
24 either b	een involved in the conception or design,	24	because you're just setting the background. If
1 the acq	visition of the data and have an electronic and 00:47		
	uisition of the data or the analysis and 02:47	1	it's for the methodology, very common, because you 02:50
2 interpre	station of it, and that they were involved	2	already know what you did. After that it is
2 interpre3 in either	station of it, and that they were involved r the drafting of the manuscript or	2	already know what you did. After that it is gutsy.
2 interpre3 in either4 critical r	ratation of it, and that they were involved r the drafting of the manuscript or revision of the manuscript for important	2 3 4	already know what you did. After that it is gutsy. Q. In your opinion would it be
2 interpre3 in either4 critical r5 intellect	ratation of it, and that they were involved r the drafting of the manuscript or revision of the manuscript for important tual content, and they have to say if they 02:47	2 3 4 5	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50
2 interpre 3 in either 4 critical r 5 intellect 6 were in	ratation of it, and that they were involved rather the drafting of the manuscript or revision of the manuscript for important tual content, and they have to say if they volved in any of the others.	2 3 4 5 6	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis?
interpre in either critical r intellect were in	ratation of it, and that they were involved r the drafting of the manuscript or revision of the manuscript for important tual content, and they have to say if they volved in any of the others. They don't need to check one of	2 3 4 5 6 7	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form.
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interpretation in either and in either and in either and interpretation interpretation in either and interpretation in either and in	tatation of it, and that they were involved r the drafting of the manuscript or revision of the manuscript for important tual content, and they have to say if they 02:47 volved in any of the others. They don't need to check one of they could say no additional contributions, tus we want to know who said they had the all expertise, who obtained the funding, 02:47 kind of stuff. As the editor in chief of JAMA, do you tu're familiar with the expectations of the readership? Yes. 02:47 At the time the JAMA article was	2 3 4 5 6 7 8 9 10 11 12 13 14 15	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form. THE WITNESS: Well, it depends. I mean at this point if they knew how many patients were in there and all that kind, they were sort of, 02:50 they weren't quite sure if it was going to be plus/minus ten because you leave a blank for patients entered and this kind of stuff, but when it gets to anything beyond how many patients did this, this, or this and what the statistical 02:50 analysis was, that is gutsy. It's very unusual.
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interpre interpre in either critical r intellect were in these, ti but for u statistic all that I Q. JAMA's A. JAMA's Q. r publishe expecta authors	r the drafting of the manuscript or revision of the manuscript for important trual content, and they have to say if they 02:47 volved in any of the others. They don't need to check one of hey could say no additional contributions, us we want to know who said they had the all expertise, who obtained the funding, 02:47 kind of stuff. As the editor in chief of JAMA, do you but re familiar with the expectations of the readership? Yes. 02:47 At the time the JAMA article was ed, do you think that JAMA's readership had attons regarding the requirements of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form. THE WITNESS: Well, it depends. I mean at this point if they knew how many patients were in there and all that kind, they were sort of, 02:50 they weren't quite sure if it was going to be plus/minus ten because you leave a blank for patients entered and this kind of stuff, but when it gets to anything beyond how many patients did this, this, or this and what the statistical 02:50 analysis was, that is gutsy. It's very unusual. I don't know how they could write it. MR. MONTGOMERY: I'd like to ask the
2 interpre 3 in either 4 critical r 5 intellect 6 were in 7 8 these, t 9 but for u 10 statistic 11 all that I 12 Q. 13 think yo 14 JAMA's 15 A. 16 Q. 17 publishe 18 expecta 19 authors 20 same a:	r the drafting of the manuscript or revision of the manuscript for important trual content, and they have to say if they 02:47 volved in any of the others. They don't need to check one of hey could say no additional contributions, us we want to know who said they had the all expertise, who obtained the funding, 02:47 kind of stuff. As the editor in chief of JAMA, do you put for familiar with the expectations of the readership? Yes. 02:47 At the time the JAMA article was ed, do you think that JAMA's readership had stions regarding the requirements of hip that were close to, if not exactly the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form. THE WITNESS: Well, it depends. I mean at this point if they knew how many patients were in there and all that kind, they were sort of, 02:50 they weren't quite sure if it was going to be plus/minus ten because you leave a blank for patients entered and this kind of stuff, but when it gets to anything beyond how many patients did this, this, or this and what the statistical 02:50 analysis was, that is gutsy. It's very unusual. I don't know how they could write it. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 38.
interpre int	retation of it, and that they were involved rethe drafting of the manuscript or revision of the manuscript for important rual content, and they have to say if they 02:47 volved in any of the others. They don't need to check one of they could say no additional contributions, us we want to know who said they had the all expertise, who obtained the funding, 02:47 kind of stuff. As the editor in chief of JAMA, do you bu're familiar with the expectations of readership? Yes. 02:47 At the time the JAMA article was ed, do you think that JAMA's readership had attions regarding the requirements of thip that were close to, if not exactly the s, what's in this form? 02:48	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form. THE WITNESS: Well, it depends. I mean at this point if they knew how many patients were in there and all that kind, they were sort of, 02:50 they weren't quite sure if it was going to be plus/minus ten because you leave a blank for patients entered and this kind of stuff, but when it gets to anything beyond how many patients did this, this, or this and what the statistical 02:50 analysis was, that is gutsy. It's very unusual. I don't know how they could write it. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 38. (WHEREUPON Deposition Exhibit 02:51
2 interpre 3 in either 4 critical r 5 intellect 6 were in 7 8 these, t 9 but for t 10 statistic 11 all that I 12 Q 13 think yo 14 JAMA's 15 Q 17 publishe 18 expecta 19 authors 20 same a: 21 A 22 free to a	retation of it, and that they were involved rethe drafting of the manuscript or revision of the manuscript for important rual content, and they have to say if they 02:47 volved in any of the others. They don't need to check one of they could say no additional contributions, us we want to know who said they had the all expertise, who obtained the funding, 02:47 kind of stuff. As the editor in chief of JAMA, do you ou're familiar with the expectations of the readership? Yes. 02:47 At the time the JAMA article was ed, do you think that JAMA's readership had attions regarding the requirements of thip that were close to, if not exactly the s, what's in this form? 02:48 Yes. These were available on our line	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	already know what you did. After that it is gutsy. Q. In your opinion would it be scientifically appropriate to draft a fill in the 02:50 blanks for all of the analysis? MR. HALPER: Objection to form. THE WITNESS: Well, it depends. I mean at this point if they knew how many patients were in there and all that kind, they were sort of, 02:50 they weren't quite sure if it was going to be plus/minus ten because you leave a blank for patients entered and this kind of stuff, but when it gets to anything beyond how many patients did this, this, or this and what the statistical 02:50 analysis was, that is gutsy. It's very unusual. I don't know how they could write it. MR. MONTGOMERY: I'd like to ask the Court Reporter to mark what will be Exhibit 38. (WHEREUPON Deposition Exhibit 02:51 No. 38 was marked as of

Pharmacia None Page 93 - 96

				9
1	MR. MONTGOMERY: You can ask anything 02:51	97	would you have then understood that the study 02:56	·
	, ,			
2	you want, but I don't know the answer.	2	lasted longer than six months?	
3	BY MR. MONTGOMERY:	3	A. Oh, yes.	
4	Q. Do you want me to give you an idea of	4	Q. Please turn to page Bates number ending	
5	where we're going so you might know what sections 02:54	5	899 of Exhibit 38. Do you see under Methods? 02:56	
6	to read? Once I ask you a question if you need to	6	A. Yes.	
7	read some more of it	7	Q. The first sentence reads "Patients with	
8	A. No. I don't need to read anymore.	8	OA or RA were enrolled into one of two studies	
9	Q. Having flipped through it, does this	9	simultaneously conducted for a period up to	
10	appear to be a sort of an example of the fill in 02:54	10	sixty-five weeks." Do you see that? 02:57	
11	the blanks type of manuscript we just discussed?	11	A. Yes.	
12	A. Yes.	12	Q. And reading that, would you understand	
13	MR. HALPER: Objection to form, calls	13	that the study lasted longer than six months?	
14	for speculation.	14	A. Yes.	
15	BY MR. MONTGOMERY: 02:54	15	Q. And had the authors included that in the 02:57	
16	Q. Would you turn to page what is Bates	16	JAMA article, would you have understood that the	
17	No. 910 ending. Looking at this page, does it	17	study lasted longer than six months?	
18	appear that defendants applied the fill in the	18	A. Yes.	
19	blanks methodology to the results of the study at	19	Q. All right. I'd like you to turn back to	
20	this point? 02:54	20	Exhibit 31 briefly. That is the letter to JAMA. 02:57	
21	MR. HALPER: Objection to form, calls	21	It's Exhibit 31.	
22	for speculation.	22	On the first page there's a section	
23	THE WITNESS: Figure 1, that's okay. I	23	that says Guidelines For Letters in the lower	
24	mean you know that you, like I said, you just put	24	right-hand corner. Do you see Guidelines For	
		I		
		98		11
1	in the number, and the figure is a standard figure 02:55	98	Letters? 02:58	1
	in the number, and the figure is a standard figure 02:55 you use for this sort of study. But then when you		Letters? 02:58 A. Yes.	1
1		1		1
1 2	you use for this sort of study. But then when you	1 2	A. Yes.	1
1 2 3	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy.	1 2 3	A. Yes. Q. And then in that it says "A signed	1
1 2 3 4	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY:	1 2 3 4	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and	1
1 2 3 4 5	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that	1 2 3 4 5	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright transfer, and acknowledgment is required for	1
1 2 3 4 5	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55	1 2 3 4 5 6	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58	1
1 2 3 4 5 6 7 8	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes.	1 2 3 4 5 6 7 8	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright transfer, and acknowledgment is required for publication." A. Yes.	1
1 2 3 4 5 6 7 8 9	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The	1 2 3 4 5 6 7 8 9	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or	1
1 2 3 4 5 6 7 8 9 10	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56	1 2 3 4 5 6 7 8 9	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58	1
1 2 3 4 5 6 7 8 9 10 11	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug	1 2 3 4 5 6 7 8 9 10	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles?	1
1 2 3 4 5 6 7 8 9 10 11 12	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you	1 2 3 4 5 6 7 8 9 10 11	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright o2:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response	1
1 2 3 4 5 6 7 8 9 10 11 12 13	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that?	1 2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright o2:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of o2:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh.	1 2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period and not just the first six months?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for the letters and that they, for example, either	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period and not just the first six months? A. Yes.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for the letters and that they, for example, either part or whole of the content, concept, and design,	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper Gl 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period and not just the first six months? A. Yes. Q. And if that language had been included	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for the letters and that they, for example, either part or whole of the content, concept, and design, you wouldn't expect data necessarily. Drafting	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period and not just the first six months? A. Yes. Q. And if that language had been included in the JAMA article, would you have understood 02:56	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for the letters and that they, for example, either part or whole of the content, concept, and design, you wouldn't expect data necessarily. Drafting the manuscript or critical revision and important 02:59	1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	you use for this sort of study. But then when you get down into some of the other stuff, it's gutsy. BY MR. MONTGOMERY: Q. Would you turn to page ending Bates 02:55 No. 905. Do you see Outcome Measures on that page? A. Yes. Q. The first sentence there reads "The primary endpoint was the incidence of upper GI 02:56 ulcer complications during the period of drug administration (up to sixty-five weeks)." Do you see that? A. Uh-huh. Q. Does this indicate that the analysis in 02:56 this manuscript was for the entire study period and not just the first six months? A. Yes. Q. And if that language had been included in the JAMA article, would you have understood 02:56 that the study lasted longer than six months?	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And then in that it says "A signed statement for authorship criteria and responsibility, financial disclosure, copyright 02:58 transfer, and acknowledgment is required for publication." A. Yes. Q. Is that the same sort of disclosure or form that we just looked at for authors of 02:58 articles? A. Yes, except most letters are in response to something. So if they say there was no data collected, then that's okay. I mean you'd look at it differently, but the expectation is that 02:58 everyone who signs would meet certain criteria for the letters and that they, for example, either part or whole of the content, concept, and design, you wouldn't expect data necessarily. Drafting the manuscript or critical revision and important 02:59 intellectual content, those sorts of things all	1

Pharmacia None Page 97 - 100

4		101	10 A Vee
1	(WHEREUPON Deposition Exhibit 02:59	1	A. Yes. 03:02
2	No. 39 was marked as of	2	MR. MONTGOMERY: I'd like to ask the
3	1/12/2007.)	3	Court Reporter to mark what will be Exhibit 40.
4	BY MR. MONTGOMERY:	4	(WHEREUPON Deposition Exhibit
5	Q. For the record, Exhibit 39 is an e-mail 02:59	5	No. 40 was marked as of 03:02
6	string starting with an e-mail from Goran,	6	1/12/2007.)
7	G-O-R-A-N, Ando, A-N-D-O, to Philip Needleman and	7	BY MR. MONTGOMERY:
8	several others dated August 13, 2001. (Document	8	Q. For the record, Exhibit 40 is an
9	tendered to the witness.)	9	editorial from JAMA dated July 12, 2006.
10	I'm just going to ask you about the 02:59	10	(Document tendered to the witness.) 03:02
11	top e-mail, but you can read as much as you'd	11	Were you one of the authors of
12	like. And the subject heading is "Re: JAMA	12	Exhibit 40?
13	Letters to the Editor."	13	A. Yes. And I met all the qualifications
14	In that paragraph do you see where	14	and I signed the form.
15	it says "Once we redraft the letter, we would send 03:00	15	Q. Does this article or editorial 03:03
16	it to the authors and get their buy-in with the	16	memorialize the changes in the conflict of
17	intent on making the ten day timeline imposed by	17	interest policy that you described earlier?
18	JAMA." Do you see that?	18	A. Yes.
19	A. Yes.	19	Q. And was the JAMA article that we have
20	Q. If all the purported authors of the 03:00	20	been discussing one of the reasons why JAMA 03:03
21	letter to JAMA did was buy into a letter that was	21	changed its conflict of interest policy?
22	drafted by someone else, would that meet the	22	A. There were many reasons, but that was
23	authorship criteria that JAMA had at the time?	23	one of many.
24	MR. HALPER: Objection to form.	24	MR. MONTGOMERY: I'd like to ask the
		100	
		102	10
1	THE WITNESS: It would meet perhaps the 03:00	102	Court Reporter to mark what will be Exhibit 41. 03:03
1 2			
	THE WITNESS: It would meet perhaps the 03:00	1	Court Reporter to mark what will be Exhibit 41. 03:03
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Pharmacia None Page 101 - 104

1		105	etudios " in the middle of that paragraph there's 02:09
1	why we kept publishing letters of apology from 03:05	1	studies," in the middle of that paragraph there's 03:08
2	people when we found that they did not disclose	2	a sentence that begins "In this issue of The
3	things. And instead of people understanding that	3	Journal," do you see that?
4	we weren't just publishing a correction, which is	4	A. Yes.
5	what every other journal does, I decided that we 03:06	5	Q. All right. I'm going to read it into 03:08
6	were going to make a big deal out of it. And	6	the record. It says "In this issue of The
7	people misunderstood that we were being duped and	7	Journal, Silverstein, et al., report the results
8	it was just the opposite, and I said I'm not going	8	of a six-month randomized, double-blind,
9	to tolerate it. So if you don't disclose, we're	9	controlled trial comparing the ulcerogenic
10	going to reveal it and we're going to make you 03:06	10	potential and upper GI toxicity of celecoxib in 03:09
11	apologize to our readers, because it's the readers	11	individuals with osteoarthritis or rheumatoid
12	who they apologize to, not to us.	12	arthritis."
13	Q. All right. On the first page of Exhibit	13	Is the description of the CLASS
14	41, at the top of the right-hand column, you have	14	study as a six-month trial there accurate in your
15	a list of different events. 03:06	15	understanding? 03:09
16	A. Yes.	16	A. That was our understanding at the time.
17	Q. One of them says "reporting only six	17	That was the understanding of the editor. He was
18	months of data in a trial designed to have twelve	18	given the manuscript that we were to publish and
19	months of data as the primary outcome."	19	he read it and this is what he took, this is his
20	A. Yes. 03:06	20	analysis of what we gave him. 03:09
21	Q. Does that refer to the JAMA article	21	Q. My question is now with the benefit of
22	we've been discussing?	22	hindsight knowing what you know, is that
23	A. The CLASS study, yes. It's referenced.	23	description of the CLASS study accurate?
24	Q. Once again, so that was one of the	24	A. No.
1	reasons, one of the reasons, why you changed 03:07	1	
	reasons, one of the reasons, why you changed 03.07	'	Q. And why is that? 03:10
2	A. Yes.	2	Q. And why is that? 03:10A. Because it was a study that took twelve
2			
	A. Yes.	2	A. Because it was a study that took twelve
3 4	A. Yes. Q JAMA's conflict of interest policy?	2	A. Because it was a study that took twelve months, actually more than twelve months, to reach its planned endpoint of forty GI episodes of
3 4 5	 A. Yes. Q JAMA's conflict of interest policy? A. Yes. Q. I'd like to show the witness what's been 03:07 	2 3 4	A. Because it was a study that took twelve months, actually more than twelve months, to reach its planned endpoint of forty GI episodes of
3 4 5 6	 A. Yes. Q JAMA's conflict of interest policy? A. Yes. Q. I'd like to show the witness what's been 03:07 previously marked as Exhibit 4. (Document 	2 3 4 5	A. Because it was a study that took twelve months, actually more than twelve months, to reach its planned endpoint of forty GI episodes of bleeding. It was a twelve-month study. MR. MONTGOMERY: I'd like to ask the
3 4 5 6 7	 A. Yes. Q JAMA's conflict of interest policy? A. Yes. Q. I'd like to show the witness what's been 03:07 	2 3 4 5 6	A. Because it was a study that took twelve months, actually more than twelve months, to reach its planned endpoint of forty GI episodes of bleeding. It was a twelve-month study.
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Pharmacia None Page 105 - 108

	109			111
1	besides you, Dr. DeAngelis. 03:11	1	for speculation. 03:14	
2	THE WITNESS: I'm sorry?	2	THE WITNESS: I know that by choosing	
3	MR. NELSON: You're the witness today	3	that, there had to be a reason. And when you look	
4	but there's going to be another witness in this	4	at the end of twelve months and you see there's no	
5	case from the AMA. 03:12	5	difference, but when you look at six months and 03:15	
6	THE WITNESS: Excuse me.	6	you see a difference, it made logical sense to me	
7	MR. MONTGOMERY: That's fine. If you	7	that you'd choose this because it had a result	
8	don't recognize it, you don't recognize it. Not a	8	that made a product look like it was something	
9	problem.	9	that was a better product to use because it had	
10	BY MR. MONTGOMERY: 03:12	10	less GI bleeding. Whereas, if you had gone to the 03:15	
11	Q. All right. We talked before, is it	11	endpoint there was no difference. It was no	
12	correct to say that you first found out about the	12	worse. It was just no better as far as GI	
13	post six-month data from the FDA website around	13	bleeding goes.	
14	February of 2001?	14	BY MR. MONTGOMERY:	
15	A. I found out about the first six-month 03:12	15	Q. We went through several articles, these 03:15	
16	Q. The post six-month data.	16	articles today, but I noticed that in the	
17	A. Oh, the post, excuse me. It came from,	17	August 2001 Washington Post, for example, do you	
18	and I recognize Dr. Wright because you produced	18	recall we looked at your language where you said	
			, , , ,	
19	something that jogged my memory, he was the one	19	we were functioning at a level of trust that was	
20	who called me because he said, he admitted it 03:12	20	perhaps broken, do you recall that? 03:15	
21	there, and I remember he was the one who called.	21	A. Yes.	
22	That's when I was told. I invited him to write a	22	Q. And then do you recall the other	
23	letter to the editor, as I did the other two, and	23	articles that we looked at from let's say 2005	
24	went to the website and they were accurate,	24	2006 where your language was the authors lied?	
	110		A V 0040	112
1	Dr. Wright and the other two writers were 03:13	1	A. Yes. 03:16	112
2	Dr. Wright and the other two writers were 03:13 accurate.	2	Q. Can you explain to me why your portrayal	112
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Pharmacia None Page 109 - 112

		3		11
1	month data, which is their endpoint to get the 03:18	3 1	record. 03:20	
2	forty-four bleeding, well, they had forty, forty	2	THE VIDEOGRAPHER: All right. This will	
3	was their endpoint, they actually end up to	3	conclude Videotape No. 3 of the videotaped	
4	forty-four, I'm pretty sure it was forty-four,	4	deposition, the deposition of Ms. DeAngelis. We	
5	showed there was no difference. That's the 03:18	5	will continue on Videotape No. 4. The time now is 03:20	
6	endpoint of CLASS, not this.	6	approximately 3:20.	
7		7	(WHEREUPON a recess was taken.)	
	And what they lied to me was I have		·	
8	documentation, e-mail, this was a six-month study.	8	THE VIDEOGRAPHER: This will begin	
9	And it was not. That is a lie.	9	Videotape No. 4 of the videotaped deposition of	
10	Q. When you say your opinion of the 03:18	10	Catherine DeAngelis taken in the matter of Case 03:34	
11	authors' conduct changed when you read their	11	No. 03-1519. Today is the 12th day of January,	
12	written explanation, are you referring to the JAMA	12	2007. The time now is approximately 3:34 p.m.,	
13	letter that's in Exhibit 31?	13	and I will remind the witness she remains under	
14	A. The letter in reply.	14	oath.	
15	Q. Right. So let's just make sure. 03:18	15		
16	Take a look at Exhibit 31 to make	16		
17	sure we're dealing with the same thing.	17		
18	A. Yes. It's the one, yes, it's 31, second	18		
19	page in reply, "In retrospect."	19		
20	Q. So just to summarize: In February of 03:19	20		
21	2001, you learned about the post six-month data	21		
22	from the FDA's website; is that correct?	22		
23	A. Yes.	23		
24	Q. But it wasn't until	24		
	11			1
1	11 A. Well, I learned about it from the 03:19	4 1	EXAMINATION 03:34	1
1 2			EXAMINATION 03:34 BY MR. HALPER:	1
	A. Well, I learned about it from the 03:19	1		1
2	A. Well, I learned about it from the 03:19 letters and then went to the site.	1 2	BY MR. HALPER:	•
2	A. Well, I learned about it from the 03:19 letters and then went to the site. Q. But it wasn't until you read the	1 2 3	BY MR. HALPER: BY MR. HALPER:	
2 3 4	Well, I learned about it from the 03:19 letters and then went to the site. Q. But it wasn't until you read the authors' written explanation in JAMA that was	1 2 3 4	BY MR. HALPER: BY MR. HALPER: Q. Good afternoon, Dr. DeAngelis.	1
2 3 4 5	A. Well, I learned about it from the 03:19 letters and then went to the site. Q. But it wasn't until you read the authors' written explanation in JAMA that was published November 21, 2001, that you concluded 03:19	1 2 3 4 5	BY MR. HALPER: BY MR. HALPER: Q. Good afternoon, Dr. DeAngelis. A. Hi. 03:34	,
2 3 4 5 6	A. Well, I learned about it from the 03:19 letters and then went to the site. Q. But it wasn't until you read the authors' written explanation in JAMA that was published November 21, 2001, that you concluded 03:19 that they had lied; is that correct?	1 2 3 4 5 6	BY MR. HALPER: BY MR. HALPER: Q. Good afternoon, Dr. DeAngelis. A. Hi. 03:34 Q. You testified this morning that the	
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Pharmacia None Page 113 - 116

	117		11
1	reviewed, sometimes re-reviewed, and the 03:35	1	A. I asked her to please, she had discussed 03:37
2	presentation is by someone who's been living with	2	this with Dr. Silverstein and he had said that
3	this manuscript for a long time, and I have the	3	this was the full data, it was six months, and I
4	full manuscript in front of me.	4	said look, make sure that you and I can't recall,
5	Q. Understood. 03:35	5	that was probably after the second manuscript, 03:37
6	But those reviews and re-reviews	6	make sure that you put in writing so he
7	were not done by you; is that correct?	7	understands exactly what you're talking about,
8	A. No.	8	what Dr. Lichtenstein meant, is this as it's
9	Q. They were done by other people at JAMA?	9	presented a six-month study or are there more data
10	A. They were done by, no, they were done by 03:35	10	on these patients, and she did that. 03:38
11	our peer reviewers, people with expertise in the	11	Q. Let's just make sure we're talking about
12	field and statisticians.	12	the right person.
13	Q. Thank you.	13	Do you understand Dr. Winker to
14	And the first time you became aware	14	have been talking to the corresponding author?
15	of the study was at this manuscript meeting? 03:36	15	A. Yes. 03:38
16	A. The first time I became aware of the	16	Q. And I think you referred earlier to that
17	study report. I knew there was this study going	17	person as Dr. Lefkowith?
18	on, but I wasn't sure what it was or anything like	18	A. Yeah. I'm not sure if she speak with
19	that. People, you know, talk about all different	19	Dr. Silverstein or Dr. Lefkowith. It may have
20	kinds of studies going on. 03:36	20	been either one of them on the phone. And she 03:38
21	Q. Your first substantive involvement	21	can't recall, I asked her and she said, you know,
22	A. Yes.	22	this is a long time ago, we do five thousand
23	Q was at this manuscript meeting; is	23	manuscripts a year. She spoke to someone, but she
24	that correct?	23	can't recall exactly what the words were.
27	mar correct:		carring call exactly what the words were.
	118		12
1	118 A. Correct. 03:36	1	Q. At the second manuscript meeting where 03:38
1 2		1 2	
	A. Correct. 03:36 Q. The next time you focused on the CLASS manuscript was at a subsequent manuscript meeting;		Q. At the second manuscript meeting where 03:38
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Pharmacia None Page 117 - 120

			-
	121		12
1	that correct? 03:39	1	MR. NELSON: The JAMA article? Is that 03:43
2	A. Several ongoing discussions, especially	2	what you're talking about?
3	when we got the response in writing on e-mail. We	3	THE WITNESS: Yes. I've got it.
4	went back and forth about what do we do with this.	4	BY MR. BROWN:
5	So there were a lot of ongoing discussions. 03:40	5	Q. If you turn to the third page, the 03:43
6	We discuss manuscripts all the	6	second full paragraph.
7	time, and I don't recall how much time or when or	7	A. "All documentation"?
8	where, but some time in between the second	8	Q. The next paragraph.
9	manuscript meeting where we decided that we would	9	A. "Adverse"?
10	take this study and publish it but we had to be 03:40	10	Q. Right. Do you want me to read it to 03:43
11	sure that this was the end of the study. And if	11	you?
12	you look at the edited, the copy edited manuscript	12	A. Yes.
13	that was sent to Dr. Lefkowith, there are specific	13	Q. "Adverse effect data were collected at
14	questions about is this the whole, I don't know	14	each visit and as reported spontaneously using the
15	the exact wording, I don't have it here with me, I 03:41	15	following question: Since your last visit have 03:43
16	have it someplace else, but is this a six-month	16	you experienced or do you currently have any
17	study, is that what you said, is this a six-month	17	symptoms that are not associated with your
18	study, is that true, what about the others, is	18	arthritis." Do you see that?
19	there other information. And the response was you	19	A. Yes.
20	are correct, this is the study, it's complete. 03:41	20	Q. Doesn't that disclose that data was 03:43
21	And there were several e-mails back and forth	21	being collected for as long as a patient remained
22	between Dr. Winker and Dr. Lefkowith, and he said	22	in the study?
23	there is longer data on the patients, they can	23	A. Not necessarily. If somebody tells me
24	remain in the study if they want to, but this is	24	this is a six-month study, what they do outside
			,
	122		12
1	the six-month study. 03:41	1	the study is not what I'm concerned about. I'm 03:44
2	the six-month study. 03:41 Q. So you knew there was longer data beyond	2	the study is not what I'm concerned about. I'm 03:44 concerned about what is in the study. This was
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Pharmacia None Page 121 - 124

	125		1
1	Q. But my question is more narrow. 03:45	1	Q. So prior to this being published, again, 03:48
2	A. And we asked them you see, a study	2	you didn't speak to any of these seventeen
3	can go on, for example, you have a study that's	3	individuals?
4	finished and then you do post ongoing studies to	4	A. No.
5	see, you may contact the patient, who knows how 03:45	5	Q. And as far as you know, Dr. Winker only 03:48
6	often. That's not part of the study.	6	spoke with the corresponding author; is that
7	Q. But it's in the study protocol section.	7	correct?
8	A. Right. But when we ask, see, this is	8	A. Yes.
9	why, the answer, if I have that here and I could	9	Q. Do you have any reason to believe anyone
10	produce it if you want. 03:46	10	else at JAMA spoke with anyone, any of the other 03:48
11	MR. NELSON: He has it.	11	authors?
12	THE WITNESS: Okay. Specifically says,	12	A. No. They would have no reason to, and
13	the answer, if the patients want. This is a	13	it would be improper for them to do so without
14	six-month study. Anything after the six months	14	Dr. Winker and I knowing it.
15	would be if the patients want to continue, that's 03:46	15	Q. Following the publication of the 03:48
16	fine.	16	article, did you personally speak to any of the
17	BY MR. HALPER:	17	seventeen authors?
18	Q. Putting aside what you just testified to	18	A. You know, I don't recall. I remember,
			see, this is where I can't remember if when I
19	being told, what is written here in the study	19	·
20	protocol section discloses, does it not, that part 03:46	20	•
21	of the study protocol was following up and	21	was the one I wanted to talk to, and I kept
22	collecting patient data after six months?	22	getting responses from
23	MR. MONTGOMERY: Objection. The	23	Q. I'll tell you in that meeting
24	document speaks for itself.	24	A. Dr
1	THE WITNESS: It was this statement in 02:47	_	1 O Verburg 02:40
1	THE WITNESS: It was this statement in 03:47	1	Q. Verburg. 03:49
2	THE WITNESS: It was this statement in 03:47 the protocol that stimulated our questioning where	2	Q. Verburg. 03:49 A. Pardon?
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Pharmacia None Page 125 - 128

	129		13
1	A. I really don't remember. 03:50	1	conclusions from looking at the website; did you? 03:53
2	Q. Other than your conversation with	2	A. I took away that there was more data and
3	Dr. Verburg and your conversation with	3	that when you looked at the data after twelve
4	Dr. Silverstein, did you have any other	4	months or the forty-four, I believe it was
5	conversations at any time regarding CLASS with any 03:50	5	forty-four incidences, and compared it with six 03:53
6	of these seventeen authors?	6	months, when you looked at that other data there
7	A. No.	7	were no differences. And that was quite different
8	Q. And other than your two manuscript	8	than the differences reported in the study at six
9	meetings and your hallway interaction with	9	months.
10	Dr. Winker, did you do anything else regarding the 03:51	10	Q. Well, it's true, isn't it, that the 03:53
11	CLASS publication?	11	manuscript reports that Celebrex did not meet its
12	A. Yeah. I had to approve the final draft.	12	primary endpoint?
13	I had to read it and I approved it.	13	A. Right.
14	Q. Other than reading it, did you do	14	Q. That's disclosed in the manuscript;
15	anything else before approving it? 03:51	15	correct? 03:53
16	A. Like what?	16	A. Yes.
17	Q. It's just my question. Did you do	17	Q. And that's true at the full study period
18	anything else?	18	as well; is that correct?
19	A. There's nothing else to be done, no.	19	A. It met the forty-four, they got
20	Q. I think you testified earlier, but 03:51	20	ultimately forty-four bleeds and they wanted 03:54
21	you'll correct me if I'm wrong, that you never	21	forty. Now, what other criteria, I don't know
22	examined the underlying data of CLASS?	22	because I don't know what other endpoints they
23	A. No.	23	wanted.
24	Q. And that's true as of today; correct?	23	Q. Would you agree that the manuscript
			a. House you agree that the managerip.
	130		13
1	130 A. Yes. 03:52	1	discloses that Celebrex did not demonstrate 03:54
1 2		1 2	
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Pharmacia None Page 129 - 132

	122		
1	defined as an ulcer complication in the study? 03:55	1	A. I have an issue with being told that the 03:57
2	A. I know how it was defined, yes.	2	study was a six-month study when it was not a
3	Q. And that is different than a symptomatic	3	six-month study.
4		4	I have no issue with the findings
	ulcer?		•
5	A. Yes. 03:56	5	as published. I already said that. If I had 03:58
6	Q. And that there was an endpoint just of	6	issue with these studies, this article would be
7	complicated ulcers; right?	7	pulled from the literature. I didn't do that. As
8	A. Right.	8	here as stated with the follow-up letters to the
9	Q. And an endpoint of combined symptomatic	9	editor, with the reply from the authors, it stands
10	and complicated ulcers? 03:56	10	in the literature. 03:58
11	A. Yes.	11	At issue for me is that the CLASS
12	Q. Do you have any reason to believe the	12	study was not a six-month study as we were told
13	statement is not accurate, that Celebrex was	13	repeatedly by at least Dr. Lefkowith because he's
14	superior on the combined endpoint?	14	the one that I saw what he wrote.
15	A. Yes. 03:56	15	Q. You didn't talk to Dr. Lefkowith though? 03:58
16	Q. That's an accurate statement; isn't it?	16	A. No. I saw what he wrote.
17	A. That's an accurate statement.	17	Q. Before the publication?
18	And it's contrary to what you just	18	A. Yes.
19	asked me that you said it didn't show. It did	19	Q. And that was the communication with
20	show it. It's accurate. 03:56	20	Dr. Winker; correct? 03:59
21	Q. I was just focusing on the complicated	21	A. Yes.
22	ulcer endpoint.	22	Q. Okay. I understand your issue, but I
23	A. Ah, but that's not what was reported.	23	just want to for the record understand what you
24	I'm just, I'm now an average clinician reading a	24	did and didn't do to arrive at that conclusion,
	134		
1			
	JAMA article that I trust and I read what I just 03:56	1	and that's why I'm asking these questions. 03:59
	JAMA article that I trust and I read what I just 03:56 read to you. That sure looks like a difference to	2	A. At the conclusion that which
3	read to you. That sure looks like a difference to me.	2	A. At the conclusion that which conclusion, sir? I'm sorry.
3	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate	2	A. At the conclusion that which
3 4	read to you. That sure looks like a difference to me.	2	A. At the conclusion that which conclusion, sir? I'm sorry.
3 4 5	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate	2 3 4	A. At the conclusion that which conclusion, sir? I'm sorry. Q. I understand what you just testified to.
3 4 5 6	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate based on the data? 03:57	2 3 4 5	A. At the conclusion that which conclusion, sir? I'm sorry. Q. I understand what you just testified to. What I'm trying to get at by these questions is 03:59
3 4 5 6 7	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate based on the data? A. Yes, as analyzed.	2 3 4 5 6	A. At the conclusion that which conclusion, sir? I'm sorry. Q. I understand what you just testified to. What I'm trying to get at by these questions is 03:59 what you reviewed, what you looked at, who you
3 4 5 6 7	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate based on the data? A. Yes, as analyzed. Q. As analyzed.	2 3 4 5 6 7	A. At the conclusion that which conclusion, sir? I'm sorry. Q. I understand what you just testified to. What I'm trying to get at by these questions is 03:59 what you reviewed, what you looked at, who you spoke to, that led you to the belief you just
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	read to you. That sure looks like a difference to me. Q. But in fact that difference is accurate based on the data? 03:57 A. Yes, as analyzed. Q. As analyzed. Well, did you ever analyze whether for the full study period Celebrex was significantly superior on the combined endpoint? 03:57 A. Did I? Q. Yes. A. I didn't have access to all the data. How would I do that? Q. Sitting here today, do you know whether 03:57 Celebrex was significantly superior to the NSAIDs A. No. Q on a combined endpoint? A. No. 03:57 Q. If it were superior to the NSAIDs for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. At the conclusion that which conclusion, sir? I'm sorry. Q. I understand what you just testified to. What I'm trying to get at by these questions is 03:59 what you reviewed, what you looked at, who you spoke to, that led you to the belief you just testified to. So I'm not trying to shake you off that. I'm just trying to get at what you did and what you looked at. 03:59 A. Right. Q. And what I understand from what you testified to is that before the publication you had the two manuscript meetings; correct? A. Yes. 04:00 Q. You had the hallway conversations with Dr. Winker; correct? A. Yes. And I carefully read the paper. Q. After the publication you had a meeting with Dr. Verburg; correct? 04:00 A. Oh, yes.

Pharmacia None Page 133 - 136

	137		
1	Q. And you 04:00	1	A. Uh-huh. I've got it. 04:03
2	A. I believe it was with Dr. Silverstein.	2	Q. If you look at the bottom of Page 2 to
3	Q. And you looked at the FDA website;	3	the top of Page 3, do you recall testifying about
4	correct?	4	that statement earlier where it says "Suffice it
5	A. Yes. 04:00	5	to say, by the end of the meeting both editors 04:04
6	Q. Did you do anything else to gain an	6	expressed greater confidence in our motives and
7	understanding of the CLASS study?	7	activities"?
8	A. Well, when you say in the beginning, you	8	A. I'm sorry. Could you repeat that?
9	make it sound like I read it in the manuscript	9	Q. Do you recall testifying earlier about
10	meeting, spend a half hour. We had reviewers who 04:00	10	that statement? 04:04
11	were peer reviewers who know this area, who know	11	A. No. 6?
12	the area of research. They reviewed it. We had	12	Q. Right. But it really starts at the very
13	statistical reviewers. They reviewed it. I read	13	bottom of Page 2 with "Suffice it to say."
14	those reports. The revised version contained	14	A. Oh, yes.
15	recommended revisions from those experts. I read 04:01	15	Q. And I believe you testified in effect 04:04
16	that and saw how closely those were followed.	16	that Dr. Verburg appeared to believe that you had
17	Now, after we published this study	17	greater confidence in his motives; is that
18	did I do any further analysis beyond what I said,	18	correct?
19	I went to the site, verified that what those two	19	A. Greater confidence in the motives and
20	letters were that we were going to publish were 04:01	20	activities. 04:04
21	accurate, that's what I did. I published it, I	21	Q. Right.
22	met with two of the three people I had expected to	22	A. Yes.
23	meet, well, I expected to meet with two but the	23	Q. And you said in effect he may have
24	wrong two, and I published the explanation. What	24	believed that but it wasn't true. Do you recall
	138		
1	138 we published stands in the literature. 04:02	1	that? 04:05
1 2	we published stands in the literature. 04:02	1 2	that? 04:05
	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you		that? 04:05 A. I said he may have believed that. I
2	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you didn't do anything else in connection with CLASS;	2	that? 04:05 A. I said he may have believed that. I don't agree with it. I had no greater confidence
2 3 4	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you didn't do anything else in connection with CLASS; is that true?	2 3 4	that? 04:05 A. I said he may have believed that. I don't agree with it. I had no greater confidence about the motives and activities.
2 3 4 5	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you didn't do anything else in connection with CLASS; is that true? A. That's true. 04:02	2 3 4 5	that? 04:05 A. I said he may have believed that. I don't agree with it. I had no greater confidence about the motives and activities. Q. So he was wrong, in your mind, when he 04:05
2 3 4 5 6	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you didn't do anything else in connection with CLASS; is that true? A. That's true. 04:02 Q. How long did you spend looking at the	2 3 4 5 6	that? 04:05 A. I said he may have believed that. I don't agree with it. I had no greater confidence about the motives and activities. Q. So he was wrong, in your mind, when he was writing about your views and state of mind
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	we published stands in the literature. 04:02 Q. Beyond what we've just talked about, you didn't do anything else in connection with CLASS; is that true? A. That's true. 04:02 Q. How long did you spend looking at the FDA website? A. Oh, God, I don't know. Q. Approximately. A. Fifteen, twenty minutes, something like 04:02 that. Enough time to verify that what those individuals wrote was based on what they said it was. Q. That there was more data than six months? 04:02 A. Exactly. Q. Okay. If you pull out Exhibit 24, which was an August 23rd e-mail from Joy Dicker. MR. MONTGOMERY: 24 did you say? MR. HALPER: Yes. 04:03	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I said he may have believed that. I don't agree with it. I had no greater confidence about the motives and activities. Q. So he was wrong, in your mind, when he 04:05 was writing about your views and state of mind here; correct? A. He misinterpreted my politeness to be that I had confidence in the motives and in the activities. 04:05 Q. Isn't it possible, Dr. DeAngelis, that the study authors here did not act with any intent to deceive anyone? A. Anything is possible. I'd like to believe that. 04:05 Q. Well, the same way Dr. Verburg misinterpreted how you viewed things, is it possible that you have misinterpreted what the CLASS authors' state of mind and intent was in publishing the JAMA piece? 04:06
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Pharmacia None Page 137 - 140

	141		14
1	very intelligent, accomplished individual, and the 04:06	1	Q. You don't have any reason to believe 04:09
2	response we get is not accurate, I can only, in my	2	that any of the other sixteen authors listed here
3	mind it was not a misunderstanding of our	3	saw Dr. Lefkowith's e-mail; do you?
4	question, he understood perfectly well what we	4	A. No. But they signed the statement that
5	were asking. 04:06	5	says that they agree that the corresponding author 04:09
6	BY MR. HALPER:	6	will represent them. It's in the statement that
7	Q. How do you know that?	7	they sign. So I don't know if they saw it or not.
8	A. May I get the, I'll show it to you, what	8	Q. Let me, just to make things go a little
9	he said. I know that	9	quicker, my question was simply do you have any
10	MR. NELSON: You understand it's in this 04:07	10	reason to believe the other sixteen authors saw 04:09
11	room. He knows exactly what you mean. He's going	11	Dr. Lefkowith's correspondence with Dr. Winker?
12	to ask the questions.	12	A. I don't know.
13	THE WITNESS: How could he not	13	Q. So you have no reason to believe they
14	understand? My understanding from your answer is	14	did?
15	that this study is complete at six months, and the 04:07	15	A. Or they didn't. 04:10
16	answer is your understanding is correct. What's	16	Q. Okay. And your basis for believing at
17	not to understand about that?	17	least that Dr. Lefkowith was lying is these
18	BY MR. HALPER:	18	e-mails; correct?
19	Q. That was Dr. Lefkowith's statement;	19	A. Malice? That's a tough word.
20	right? Correct? 04:07	20	Q. I didn't say malice. 04:10
21	A. Yes, right.	21	A. I'm sorry. I misheard you.
22	Q. No one ever told you that Dr. Lefkowith	22	Q. That is a tough word.
23	confessed to lying; correct?	23	A. Yes, please. I would not say that.
24	A. Oh, no.	24	Q. Your basis for believing that
	142		
1		1	14. Dr. Lefkowith lied is based on his e-mails 04:10
1	Q. You don't have any contemporaneous 04:07	1 2	Dr. Lefkowith lied is based on his e-mails. 04:10
2	Q. You don't have any contemporaneous 04:07 evidence other than how you read the e-mails that	1 2 3	Dr. Lefkowith lied is based on his e-mails. 04:10 A. E-mails, yes. That's better, yes.
2	Q. You don't have any contemporaneous 04:07 evidence other than how you read the e-mails that Dr. Lefkowith was intentionally deceiving anyone;	2	Dr. Lefkowith lied is based on his e-mails. 04:10 A. E-mails, yes. That's better, yes. Q. You don't have any basis other than the
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2 3 4 5	Q. You don't have any contemporaneous 04:07 evidence other than how you read the e-mails that Dr. Lefkowith was intentionally deceiving anyone; correct? A. I have his word that he told us 04:08	2 3 4 5	Dr. Lefkowith lied is based on his e-mails. 04:10 A. E-mails, yes. That's better, yes. Q. You don't have any basis other than the e-mails for believing that the authors lied to you; isn't that right? 04:10
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Pharmacia None Page 141 - 144

	145		14
1	A. I don't need any others. 04:12	1	A. No. 04:14
2	Q. But if there are more, I'd like to know	2	Q or the public?
3	about them.	3	A. No.
4	A. I don't know. No. There are none.	4	Q. Again, other than what you testified to,
5	Q. Okay. If the other sixteen authors 04:12	5	meaning Lefkowith's e-mails and, well, other than 04:15
6	let me withdraw that.	6	Lefkowith's e-mails and the study, do you have any
7	You understand that when I talk	7	reason to believe that Cyril intended to deceive
8	about intent, state of mind, it means someone	8	anyone?
9	actually meant to do something. You understand	9	A. Cyril?
10	that? 04:12	10	Q. Cyril. Do you understand that at the 04:15
11	A. I understand.	11	time of the CLASS trial Cyril was the corporate
12	Q. Okay. If the other sixteen authors	12	sponsor?
13	never saw the e-mails that formed the basis for	13	A. Oh, C-Y-R-I-L. I'm thinking Cyril who?
14	your belief that Dr. Lefkowith lied, then you have	14	I'm sorry. No, I don't.
15	no reason to believe that those sixteen people 04:12	15	Q. Other than what you testified to, do you 04:16
16	intended to deceive you; isn't that right?	16	have any reason to believe that Pharmacia intended
17	A. Only in that they gave me a paper that	17	to deceive anyone?
18	says it's the CLASS study and it is not the CLASS	18	A. No.
19	study.	19	Q. Other than what you testified to, do you
20	Q. But that is not what you testified that 04:12	20	have any reason to believe that Pfizer intended to 04:16
21	led you to believe that Dr. Lefkowith had lied.	21	deceive anyone?
22	In fact, you testified that the JAMA manuscript is	22	A. Pfizer wasn't even there at the time;
23	accurate as printed.	23	were they?
24	A. This is.	24	Q. I take it that's a No?
	146		14
1	146 Q. Right. 04:13	1	14 A. That's a No. 04:16
1 2		1 2	
	Q. Right. 04:13		A. That's a No. 04:16
2	Q. Right. 04:13A. The six-month data are accurate as	2	A. That's a No. 04:16 Q. Okay. If you turn to Exhibit 22, it's a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Right. 04:13 A. The six-month data are accurate as published. Q. Right. A. This is not the CLASS study. And when 04:13 the representative of this group tells me through an e-mail to Dr. Winker that this is a six-month study, that's a lie. Q. Other than the fact that you believe Dr. Lefkowith represented the other authors, do 04:13 you have any reason to attribute his statement to them? A. They signed this. This is a six-month study. It says the CLASS study, a randomized controlled trial. They signed their names to 04:14 this. This is not the CLASS study. And the CLASS study did not stop at six months. And they are authors. 04:14 Q. Other than Dr. Lefkowith's e-mail and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's a No. 04:16 Q. Okay. If you turn to Exhibit 22, it's a May 22nd e-mail from Mona Wahba. Did you ever see this e-mail before today? 04:17 A. No. Q. Do you know who Mona Wahba is? A. No. Q. Do you know what company she works for? A. No. 04:17 Q. Do you know what position she holds? A. No. Q. Do you know what, if any, involvement she had in the CLASS study? A. No. 04:17 MR. NELSON: Excuse me a second. Some of that, the answers to some of your questions are on this document. MR. HALPER: Well, but I don't think Dr. DeAngelis has an independent recollection. 04:17 MR. NELSON: No, no. As long as you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Right. 04:13 A. The six-month data are accurate as published. Q. Right. A. This is not the CLASS study. And when 04:13 the representative of this group tells me through an e-mail to Dr. Winker that this is a six-month study, that's a lie. Q. Other than the fact that you believe Dr. Lefkowith represented the other authors, do 04:13 you have any reason to attribute his statement to them? A. They signed this. This is a six-month study. It says the CLASS study, a randomized controlled trial. They signed their names to 04:14 this. This is not the CLASS study. This is a portion of the CLASS study. And the CLASS study did not stop at six months. And they are authors. 04:14 Q. Other than Dr. Lefkowith's e-mail and the fact that all seventeen authors signed the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. That's a No. 04:16 Q. Okay. If you turn to Exhibit 22, it's a May 22nd e-mail from Mona Wahba. Did you ever see this e-mail before today? 04:17 A. No. Q. Do you know who Mona Wahba is? A. No. Q. Do you know what company she works for? A. No. 04:17 Q. Do you know what position she holds? A. No. Q. Do you know what position she holds? A. No. Q. Do you know what, if any, involvement she had in the CLASS study? A. No. 04:17 MR. NELSON: Excuse me a second. Some of that, the answers to some of your questions are on this document. MR. HALPER: Well, but I don't think Dr. DeAngelis has an independent recollection. 04:17 MR. NELSON: No, no. As long as you make it clear other than what she may read on this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Right. 04:13 A. The six-month data are accurate as published. Q. Right. A. This is not the CLASS study. And when 04:13 the representative of this group tells me through an e-mail to Dr. Winker that this is a six-month study, that's a lie. Q. Other than the fact that you believe Dr. Lefkowith represented the other authors, do 04:13 you have any reason to attribute his statement to them? A. They signed this. This is a six-month study. It says the CLASS study, a randomized controlled trial. They signed their names to 04:14 this. This is not the CLASS study. And the CLASS study did not stop at six months. And they are authors. 04:14 Q. Other than Dr. Lefkowith's e-mail and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. That's a No. 04:16 Q. Okay. If you turn to Exhibit 22, it's a May 22nd e-mail from Mona Wahba. Did you ever see this e-mail before today? 04:17 A. No. Q. Do you know who Mona Wahba is? A. No. Q. Do you know what company she works for? A. No. 04:17 Q. Do you know what position she holds? A. No. Q. Do you know what, if any, involvement she had in the CLASS study? A. No. 04:17 MR. NELSON: Excuse me a second. Some of that, the answers to some of your questions are on this document. MR. HALPER: Well, but I don't think Dr. DeAngelis has an independent recollection. 04:17 MR. NELSON: No, no. As long as you

Pharmacia None Page 145 - 148

	149	151
1	this document. 04:17	1 A. Yes. 04:19
2	MR. NELSON: Oh, okay. I'm sorry for	2 Q. You were asked well, before I get
3	interrupting.	3 into that, do you know who Emilio Arbe is?
4	BY MR. HALPER:	4 A. No.
5	Q. As far as you know, Dr. Wahba, well, she 04:17	5 Q. Have you ever heard of him before? 04:19
6	is not in fact one of the authors of the study;	6 A. No.
7	correct?	7 Q. Do you know what company he worked for
8	A. That I know.	8 at the time?
9	Q. She didn't correspond with JAMA	9 A. No.
10	concerning the study; correct? 04:18	10 Q. Do you know what position he had at the 04:20
11	A. No.	11 time?
12	Q. Do you recall you were asked earlier if	12 A. No.
13	you were ever told that the authors were	13 Q. Do you know if he had any involvement in
14	cherry-picking the data? Do you recall that	14 the CLASS study?
		15 A. No. 04:20
15	·	
16	A. Yes.	16 Q. You were asked if it is proper
17	Q. And you said you were never told that.	17 scientific behavior to do what Emilio Arbe alleges
18	Do you recall that?	18 was done here. Do you recall that?
19	A. I recall that, yes.	19 A. Yes.
20	Q. That phrase appears in Mona Wahba's 04:18	20 Q. And you said it was not. Do you recall 04:20
21	e-mail; correct?	21 that?
22	A. Correct.	22 A. That's true.
23	Q. Isn't it possible that you were never	23 Q. Do you have any reason to believe that
24	told that the authors were cherry-picking the data	24 Emilio Arbe in fact knows what was done with the
1	because in fact in their minds they were not 04:18	1 data? 04:20
2		
	cherry-picking the data?	2 A. I have no idea. Obviously he knew a
3	cherry-picking the data? A. Yes.	2 A. I have no idea. Obviously he knew a 3 fair amount about the data going into this, but I
3 4		-
	A. Yes.	3 fair amount about the data going into this, but I
4	A. Yes. Q. That is possible.	3 fair amount about the data going into this, but I 4 don't know what happened after.
4 5	A. Yes.Q. That is possible.A. That's possible.04:18	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20
4 5 6	 A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an 	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges
4 5 6 7	 A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th 	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done
4 5 6 7 8	 A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. 	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true?
4 5 6 7 8 9	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay.	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct.
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4 5 6 7 8 9 10	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You
4 5 6 7 8 9 10 11	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last
4 5 6 7 8 9 10 11 12 13	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it.	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh.
4 5 6 7 8 9 10 11 12 13	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21
4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19 third paragraph in the e-mail?	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21 then under Trial Design Issues, the third bullet
4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19 third paragraph in the e-mail? A. "With a bit of data massage," that one?	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21 then under Trial Design Issues, the third bullet point under that, Worst Case. Do you see that?
4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19 third paragraph in the e-mail? A. "With a bit of data massage," that one? Q. Yes. It says "With a bit of data	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21 then under Trial Design Issues, the third bullet point under that, Worst Case. Do you see that? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19 third paragraph in the e-mail? A. "With a bit of data massage," that one? Q. Yes. It says "With a bit of data massage, what Steve Geis and his team have done is	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21 then under Trial Design Issues, the third bullet point under that, Worst Case. Do you see that? A. Yes. Q. It says "we have to attack the trial
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. That is possible. A. That's possible. Q. If you turn to Exhibit 28, it's an e-mail chain. It starts with the September 8th e-mail from Lefkowith. A. Okay. Q. You were asked about a statement on the 04:19 third page of this chain. It's the third paragraph in the Emilio Arbe e-mail. Do you see that? A. I see it. Q. Do you recall you were asked about the 04:19 third paragraph in the e-mail? A. "With a bit of data massage," that one? Q. Yes. It says "With a bit of data massage, what Steve Geis and his team have done is to focus on the six-month data for no other reason 04:19 that it happens to look better," and then it goes	fair amount about the data going into this, but I don't know what happened after. Q. The fact that it is not generally proper 04:20 scientific behavior to do what Emilio Arbe charges does not mean that in fact that's what was done here; isn't that true? A. That's correct. Q. Okay. If you turn to Exhibit 27, which 04:20 is a March 20th e-mail from Carolyn Wilson. You were asked about a statement, the second to last page in the e-mail, 816. A. Uh-huh. Q. It's the bullet point under Option 1 and 04:21 then under Trial Design Issues, the third bullet point under that, Worst Case. Do you see that? A. Yes. Q. It says "we have to attack the trial design if we do not see the results we want." Do 04:22 you see that?
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Pharmacia None Page 149 - 152

	450	.	
1	153 that? 04:22	³ 1	My problem is this decision was 04:25
2	A. That's correct.	2	made by the authors, I assume, without telling us.
3	Q. Do you know who authored this document?	3	And rather than telling us the truth of why they
4	A. Rich Montwill? Oh, I only know by	4	chose six months, they told us the study was six
5	reading. Do I know who this person is? Carolyn 04:22	5	months. 04:26
6	Wilson? I don't know Carolyn Wilson.	6	Q. Understood. But you're not saying that
7	Q. Had you ever heard of her before today?	7	Dr. Silverstein is wrong in his view of the post
8	A. No.	8	six-month data?
9	Q. Do you know what involvement she had in	9	A. No, he's not.
10	the CLASS? 04:22	10	Q. In fact, the data after six months could 04:26
11	A. No.	11	be confounded; isn't that right?
12	Q. Do you have any idea if anyone actually	12	A. It could be.
13	did what she is suggesting be done here?	13	Q. And if the data after six months are
14	A. No.	14	confounded, doesn't that mean that that data
15	Q. You don't know? 04:22	15	doesn't tell us anything about the safety of the 04:26
16	A. I don't know.	16	drug?
17	Q. Do you recall you were asked a number of	17	A. If it were presented in the full twelve
18	questions about informative censoring?	18	months with full explanation of why things changed
19	A. Yes.	19	after six months, then the reader could make the
20	Q. Have you ever heard that concept 04:23	20	decision whether they think that Celebrex is I'll 04:26
21	referred to as withdrawal of susceptibles?	21	use the word "better than," as far as GI bleeding
22	A. Not in those words but in that meaning,	22	goes, than aspirin and NSAIDs. They didn't do
23	yes.	23	that.
24	Q. If you look at Exhibit 31, which is	24	Q. Agreed. They didn't do that.
	154	1	
1	Dr. Silverstein's reply, I'm again going to focus 04:23	1	My question though is a little 04:27
1 2			
	Dr. Silverstein's reply, I'm again going to focus 04:23	1	My question though is a little 04:27
2	Dr. Silverstein's reply, I'm again going to focus 04:23 on his reply.	1 2	My question though is a little 04:27 different, okay. If the data after six months is
2	Dr. Silverstein's reply, I'm again going to focus 04:23 on his reply. In this document is it accurate to	1 2 3	My question though is a little 04:27 different, okay. If the data after six months is confounded or statistically invalid, then doesn't that mean that that data is not instructive
2 3 4	Dr. Silverstein's reply, I'm again going to focus 04:23 on his reply. In this document is it accurate to say that Dr. Silverstein was explaining why the	1 2 3 4	My question though is a little 04:27 different, okay. If the data after six months is confounded or statistically invalid, then doesn't that mean that that data is not instructive regarding the safety or efficacy of the drug? 04:27
2 3 4 5 6	Dr. Silverstein's reply, I'm again going to focus 04:23 on his reply. In this document is it accurate to say that Dr. Silverstein was explaining why the authors used the six-month dataset? 04:24 A. Yes.	1 2 3 4 5 6	My question though is a little 04:27 different, okay. If the data after six months is confounded or statistically invalid, then doesn't that mean that that data is not instructive regarding the safety or efficacy of the drug? 04:27 A. If I had the opportunity
2 3 4 5 6 7	Dr. Silverstein's reply, I'm again going to focus 04:23 on his reply. In this document is it accurate to say that Dr. Silverstein was explaining why the authors used the six-month dataset? 04:24 A. Yes. Q. Do you have any basis to argue with	1 2 3 4 5 6	My question though is a little 04:27 different, okay. If the data after six months is confounded or statistically invalid, then doesn't that mean that that data is not instructive regarding the safety or efficacy of the drug? 04:27 A. If I had the opportunity MR. MONTGOMERY: Objection, calls for
2 3 4 5 6 7 8	Dr. Silverstein's reply, I'm again going to focus on his reply. In this document is it accurate to say that Dr. Silverstein was explaining why the authors used the six-month dataset? O4:24 A. Yes. Q. Do you have any basis to argue with whether the six-month data is a valid dataset?	1 2 3 4 5 6 7 8	My question though is a little 04:27 different, okay. If the data after six months is confounded or statistically invalid, then doesn't that mean that that data is not instructive regarding the safety or efficacy of the drug? 04:27 A. If I had the opportunity MR. MONTGOMERY: Objection, calls for speculation. I apologize.
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Pharmacia None Page 153 - 156

1	157 A. I don't know that. 04:28	1	MR. MONTGOMERY: Object to form. 04:31
2		2	THE WITNESS: If indeed that's true and
	Q. I'm not saying you know it. I'm saying	3	
3	assume that Dr. Silverstein is right for a moment.		the people have the opportunity to see it and to
4	A. Okay.	4	say it's confounded and agree, then he's right.
5	Q. If Dr. Silverstein is right, then the 04:28	5	But to take his word for it without seeing the 04:32
6	post six-month data are not instructive regarding	6	data takes a leap of faith that I'm not willing to .
7	the efficacy or safety of the drug; isn't that	7	give.
8	true?	8	BY MR. HALPER:
9	MR. MONTGOMERY: Objection to form,	9	Q. Understood, you're not. But if he's
10	improper hypothetical. 04:29	10	right and someone is assessing simply the efficacy 04:32
11	THE WITNESS: The issue is we put our	11	or safety of this drug, if he's right, the post
12	reputation and our readers believe and trust in us	12	six-month data are not going to help; isn't that
13	that we were publishing the CLASS study, and	13	true?
14	that's not what we were given. And I have no	14	MR. MONTGOMERY: Object to form.
15	reason one way or the other to know that this is 04:29	15	THE WITNESS: That's true. 04:32
16	not just made-up stuff. I don't know.	16	But to use this study, to come up
17	What I do know, what I do know, is	17	with those conclusions that people will read and
18	that the data as of six months, the way it was	18	believe is the CLASS study, is not right because
19	analyzed, is accurate, but it's not the CLASS	19	it's not the CLASS study. And I don't know if the
20	study. And after that I don't know. 04:30	20	second six months if they're right or not. 04:32
21	I've been told by some people who	21	BY MR. HALPER:
22	have analyzed it that it shows very clearly that	22	Q. I understand that you don't know. I'm
23	you really shouldn't have used the first six	23	not suggesting you do. I'm only, and you've
24	months, and there's arguments, and I understand	24	answered me, but I just want to clarify it, I
	158		
1	that. But the problem is this is not the CLASS 04:30	1	believe your answer was it is true that if he is 04:33
2	that. But the problem is this is not the CLASS 04:30 study.	2	right then the post six-month data do not instruct
2	that. But the problem is this is not the CLASS 04:30 study. BY MR. HALPER:	2	right then the post six-month data do not instruct us on the efficacy or the safety of the drug;
2 3 4	that. But the problem is this is not the CLASS 04:30 study. BY MR. HALPER: Q. That is your problem; correct?	2 3 4	right then the post six-month data do not instruct us on the efficacy or the safety of the drug; correct?
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Pharmacia None Page 157 - 160

	161		
1	approximately 4:40 p.m., and I'll remind the 04:40	1	wouldn't have published them if you disagreed with 04:43
2	witness once more that she's under oath.	2	them; correct?
3	THE WITNESS: Allow me to clarify what	3	A. Right.
4	I'm trying to say.	4	Q. Or if you believed he was being
5	BY MR. HALPER: 04:40	5	deceitful; correct? 04:43
6	Q. Sure.	6	A. In the reply?
7	A. If a study is designed for a certain	7	Q. Yes.
8	point, all the data gathered until you reach that	8	A. No. I wouldn't have published.
9	point are valuable and all of it should be	9	Q. If you thought he was being deceitful in
10	analyzed and you can say, all right, at six months 04:40	10	the reply, you would not have published the reply; 04:43
11	it looks this way but at twelve months it looks	11	correct?
12	this way. So if you only had six months data and	12	A. That's true.
13	that was your decided endpoint, then it's	13	Q. You didn't ask him I assume when you
14	absolutely legitimate for you to say well, yeah,	14	spoke to him are you being deceitful?
15	we follow them thereafter because of whatever, 04:41	15	A. No, of course not. 04:43
16	post hoc whatever, but our study was six months,	16	Q. And you accepted the reply for
17	that's one story.	17	publication; correct?
18	My point is that this was a study	18	A. Correct.
19	endpoint forty bleeds. It took twelve months	19	Q. I just want to clarify something. You
20	essentially to reach that, and therefore, all 04:41	20	were asked a number of questions earlier by 04:44
21	twelve months data are valid, not just six months.	21	Mr. Montgomery to give your opinions on various
22	Even though you say hey, look, the first six	22	subjects. Do you recall that?
23	months because we got patients following them all	23	A. Oh, yes.
24	along until we get forty bleeds and we didn't get	24	Q. Generally.
1	the feature bloods until horse but over horse when you O4.44	1 4	
1			
2	the forty bleeds until here, but over here when we 04:41	1	A. Generally, yeah. 04:44
2	only had twenty-two bleeds, I don't know how many,	2	Q. You are an M.D.; correct?
3	only had twenty-two bleeds, I don't know how many, okay, this is what we found, and this stuff we	2 3	Q. You are an M.D.; correct? A. Correct.
3 4	only had twenty-two bleeds, I don't know how many, okay, this is what we found, and this stuff we found less because yada, yada, yada. That's not	2 3 4	Q. You are an M.D.; correct?A. Correct.Q. Do you hold yourself out as an expert in
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3 4 5 6	only had twenty-two bleeds, I don't know how many, okay, this is what we found, and this stuff we found less because yada, yada, yada. That's not valid. 04:42 It's valid only that you report to	2 3 4 5 6	 Q. You are an M.D.; correct? A. Correct. Q. Do you hold yourself out as an expert in statistics? O4:44 A. No.
3 4 5 6 7	only had twenty-two bleeds, I don't know how many, okay, this is what we found, and this stuff we found less because yada, yada, yada. That's not valid. 04:42 It's valid only that you report to what you said was your endpoint. And that's why	2 3 4 5 6 7	 Q. You are an M.D.; correct? A. Correct. Q. Do you hold yourself out as an expert in statistics? Q. No. Q. Do you hold yourself out as an expert in
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Pharmacia None Page 161 - 164

	165			16
1	am not an expert but I have two statistical 04:45	1	A. No. 04:47	
2	bio-statisticians on my staff who are editors, and	2	Q. Or regarding rheumatology.	
3	we pay about another twenty for their statistical	3	A. No.	
4	analysis expertise. I am not a bio-statistician,	4	Q. Or regarding CLASS.	
5	absolutely not. 04:45	5	A. No, certainly no. 04:47	
6	Q. Did any of the statisticians on your	6	Q. Okay. Thank you.	
7	staff communicate with you regarding the	7	You talked earlier or referred	
8	publication of the CLASS study?	8	earlier to my problem and your problem. But you	
9	They had to have approved it or we would	9	understand that we're here today in connection	
10	never have. 04:46	10	with a securities litigation? 04:48	
11	Q. Did you ever discuss with them the	11	A. Correct.	
12	informative censoring argument?	12	Q. Have you read any of the documents filed	
13	A. Not per se, no.	13	with the court in that litigation?	
14		14	A. No.	
	Q. What do you mean "not per se"?			
15	A. Well, because that came up later in the 04:46	15	Q. Do you have any understanding of what 04:48	
16	reply, not to the publication that they had	16	the case is about?	
17	reviewed.	17	A. In general, yes.	
18	Q. And when it came up in the reply, did	18	Q. Do you understand that the plaintiffs	
19	you discuss it with your statisticians?	19	here are claiming that the price of Pharmacia	
20	A. No. 04:46	20	stock was artificially high because of the JAMA 04:48	
21	Q. So while you have statisticians on your	21	publication?	
22	staff, you did not discuss the informative	22	A. The claim? Yes. I understand that.	
23	censoring issue with them in connection with the	23	Q. That's the claim. Do you understand	
24	CLASS?	24	that?	
	166			1
1	A. Not in relation to the CLASS study, 04:46	1	A. Yes. 04:48	1
1 2		1 2	A. Yes. 04:48 Q. Do you have any reason to believe that	1
	A. Not in relation to the CLASS study, 04:46			1
2	A. Not in relation to the CLASS study, 04:46 correct.	2	Q. Do you have any reason to believe that	1
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Pharmacia None Page 165 - 168

	169		
1	owned stock in my life. 04:49	1	A. Yes. 04:52
2	Q. And you're not an expert in the stock	2	Q. You have no reason to believe that the
3	markets; correct?	3	distribution of reprints affected the price of
4	A. No.	4	Pharmacia stock; do you?
5	Q. Do you know what happened to the price 04:50	5	A. I wouldn't know, no. 04:52
6	of Pharmacia stock when the JAMA article was	6	Q. You have no reason to believe that
7	published?	7	anyone purchased or sold Pharmacia stock based on
8	A. No.	8	a reprint of the publication; isn't that right?
9	Q. And I take it, therefore, you don't know	9	A. That's correct.
10	what effect, if any, the publication had on the 04:50	10	Q. You testified earlier that soon after 04:53
11	price of the Pharmacia stock?	11	the advisory committee hearings in February of
12	A. I don't follow the stock market. I	12	2001 you went and looked at the FDA website;
13	don't know.	13	correct?
14	Q. And you would have no basis for an	14	A. Yes.
15	opinion about the impact of the article on the 04:50	15	Q. And information was posted there; 04:53
16	price of Pharmacia stock; correct?	16	correct?
17	A. In this case, no.	17	A. Correct.
18	Q. Do you have any reason to believe let	18	Q. Were those FDA reviewer reports that
19	me withdraw that.	19	were published there?
20	Do you know of anyone who purchased 04:50	20	A. Gee, I don't remember. I really don't 04:53
21	or sold Pharmacia stock on the basis of the JAMA	21	remember.
22	publication?	22	Q. But as of February of 2001, the full
23	A. No.	23	data was available on the FDA website; isn't that
24	Q. Given that, do you have any reason to	24	true?
1	believe people did or did not purchase Pharmacia 04:50	1	A. As I recall, yes. I believe they were 04:53
2	stock on the basis of the IAMA nublication?		
	stock on the basis of the JAMA publication?	2	full.
3	A. I have no reason, I have no knowledge.	3	full. Q. So isn't it also true that as of
4	A. I have no reason, I have no knowledge.	3	Q. So isn't it also true that as of
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Pharmacia None Page 169 - 172

	470		
1	Q. Is it fair to say that the first time 04:54	1	Dr. Lefkowith and Dr. Winker. Do you recall that? 05:02
2	you examined it in substance was today?	2	A. Yes.
3	A. Yes.	3	
			Q. Do you know whether Dr. Lefkowith
4	Q. And, therefore, is it also true that you	4	forwarded or communicated his e-mail exchanges
5	have no basis to testify whether there is anything 04:55	5	with Dr. Winker to anyone else? 05:02
6	in the Juni article that is different from what is	6	A. No.
7	publicly available or was publicly available on	7	Q. You don't know?
8	the FDA website as of February 2001?	8	A. I don't know.
9	MR. MONTGOMERY: Object to form.	9	MR. HALPER: No questions at this time,
10	THE WITNESS: You mean is there anything 04:55	10	no further questions. 05:02
11	in here?	11	MR. NELSON: Neither of you?
12	BY MR. HALPER:	12	MR. HALPER: No, no, no. Do you have
13	Q. That's not public.	13	some more?
14	MR. MONTGOMERY: Object to form.	14	MR. MONTGOMERY: Yes, but very, very
15	THE WITNESS: I saw it, so it must have 04:55	15	short, although that's the classic. 05:02
16	been, it was publicly available, yeah.	16	
17	BY MR. HALPER:	17	
18	Q. Do you know whether there is anything in	18	
19	the Juni article that was not publicly available	19	
20	from the FDA website in February '01? 04:55	20	
21	A. Well, the idea about the	21	
22	MR. MONTGOMERY: Object to form.	22	
23	THE WITNESS: the thirty thousand	23	
24	reprints, I didn't even know that until now.	24	
	174		
1	174 BY MR. HALPER: 04:55	1	FURTHER EXAMINATION 05:03
		1 2	
2	BY MR. HALPER: 04:55		FURTHER EXAMINATION 05:03
2 3	BY MR. HALPER: 04:55 Q. Anything else?	2	FURTHER EXAMINATION 05:03 BY MR. MONTGOMERY:
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Pharmacia None Page 173 - 176

	177			179
1	MR. MONTGOMERY: Just a couple more 05:04	1	IN THE UNITED STATES DISTRICT COURT	
2	quick ones.	2	DISTRICT OF NEW JERSEY	
3	BY MR. MONTGOMERY:	3		
4	Q. You've been the editor in chief of JAMA	4	Alaska Electrical, et al. v. Pharmacia, et al.	
5	now for seven years; is that right? 05:04	5	Case No. 03-1519	
6	A. Correct, seven years and eleven days.	6		
7	Q. Would you say that experience has left	7	I hereby certify that I have read the	
8	you well qualified to opine about what should and	8	foregoing transcript of my deposition given on	
9	should not be included in medical journal	9	January 12, 2007, consisting of Pages 1 - 178	
10	articles? 05:04	10	inclusive, and I do again subscribe and make oath	
11	A. Yes.	11	that the same is a true, correct, and complete	
12	Q. And do you believe that that experience	12	transcript of my deposition so given as aforesaid, as	
13	has left you well qualified to opine about what	13	it now appears.	
14	JAMA's readership expects to be included in	14		
15	medical journal articles? 05:04	15	PLEASE CHECK ONE:	
16	A. Yes.	16	I have no corrections.	
17	MR. MONTGOMERY: No further questions.	17	Number of errata sheets enclosed.	
18	MR. NELSON: Are you done?	18		
19		19		
20		20	CATHERINE DE ANGELIS	
21		21	Subscribed and sworn to	
22		22	before me this day	
23			of, 2007.	
24		24		
	178			180
1	178 FURTHER EXAMINATION 05:05	1	ERRATA SHEET	180
1 2		1 2	ERRATA SHEET DEPOSITION OF: CATHERINE DE ANGELIS	180
	FURTHER EXAMINATION 05:05			180
2	FURTHER EXAMINATION 05:05 BY MR. HALPER:	2 3 4	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007	180
2	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER:	2 3 4 5	DEPOSITION OF: CATHERINE DE ANGELIS	180
2 3 4 5 6	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has	2 3 4 5 6	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007	180
2 3 4 5 6 7	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has subscriptions. That's all I know.	2 3 4 5 6 7	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007 PAGE LINE NUMBER COMMENT	180
2 3 4 5 6	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has	2 3 4 5 6 7 8	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007 PAGE LINE NUMBER COMMENT	180
2 3 4 5 6 7	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has subscriptions. That's all I know. Q. Do you know the extent of those subscriptions?	2 3 4 5 6 7	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007 PAGE LINE NUMBER COMMENT	180
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2 3 4 5 6 7 8 9 10	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has subscriptions. That's all I know. Q. Do you know the extent of those subscriptions? A. No. I don't know numbers. I do know 05:05 they, the reason I know is because I was astounded	2 3 4 5 6 7 8 9 10	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007 PAGE LINE NUMBER COMMENT	180
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	FURTHER EXAMINATION 05:05 BY MR. HALPER: BY MR. HALPER: Q. Do you know the relationship between JAMA's readership and the investment community? 05:05 A. I know the investment community has subscriptions. That's all I know. Q. Do you know the extent of those subscriptions? A. No. I don't know numbers. I do know 05:05 they, the reason I know is because I was astounded that they bothered to read it, but they do. Q. But you can't opine on how whatever that readership is translates into any impact on the stock market; correct? 05:05 A. No, I can't. I don't know. MR. HALPER: No further questions.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	DEPOSITION OF: CATHERINE DE ANGELIS DATE: January 12, 2007 PAGE LINE NUMBER COMMENT	180
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Pharmacia None Page 177 - 180

	181			, ingene, eaunenne i, in 2001 i ince	183
1	STATE OF ILLINOIS)	1		DEPOSITION EXHIBITS	
2	COUNTY OF C O O K)	2		CATHERINE DE ANGELIS	
3		3	NUMB	ER DESCRIPTION PAGE	
4	I, Donna M. Stifter, RPR, CSR No.	4			
5	084-003145, do hereby certify:	5	17	Subpoena 10	
6	That the foregoing deposition of CATHERINE DE	6			
7	ANGELIS was taken before me at the time and place	7	18	Curriculum Vitae 12	
8	therein set forth, at which time the witness was	8			
9	put under oath by me;	9	3	9/13/00 article,	
10	That the testimony of the witness and all	10		"Gastrointestinal Toxicity	
11	objections made at the time of the examination	11		With Celecoxib vs.	
12	were recorded stenographically by me, were	12		Nonsteroidal Anti-inflammatory	
13	thereafter transcribed under my direction and	13		Drugs for Osteoarthritis	
14	supervision and that the foregoing is a true	14		and Rheumatoid Arthritis.	
15	record of same.	15		The CLASS Study: A	
16	I further certify that I am neither counsel	16		Randomized Controlled	
	for nor related to any party to said action, nor	17		Trial 19	
17		18		iliai 13	
18	in any way interested in the outcome thereof.		10	44/4/04 letter White	
19	IN WITNESS WHEREOF, I have subscribed my name	19	19	11/1/01 letter, White	
20	this day of January, 2007.	20		to Charlesworth, 00111092	
21		21		- 00111094 21	
22		22			
23	Donna M. Stifter, RPR, CSR 084-003145	23	20	photocopy of Drs. Friedman	
24		24		and Verburg cards 28	
	182				184
1	INDEX	1		DEPOSITION EXHIBITS	104
2	INDLX	2		CATHERINE DE ANGELIS	
	Friday, January 42, 2007		NILIMD		
3 4	Friday, January 12, 2007	3 4	NUMB	ER DESCRIPTION PAGE	
5	WITNESS EXAMINATION	5	21	Final Report of the	
6	WITNESS EXAMINATION	6	21	CLASS study, 01220923 -	
7	CATHERINE DE ANGELIS	7		01221137 33	
		8		01221137 33	
8	(By Mr. Montgomery) 5		00	5/00/04 a mail abain	
9	(By Mr. Halper) 116	9	22	5/22/01 e-mail chain,	
10	(By Mr. Montgomery) 176	10		Wahba to Cristo,	
11	(By Mr. Halper) 178	11		00500695 - 00500697 38	
12		12	0	0/F/04 Washington Day	
13		13	8	8/5/01 Washington Post	
14		14		article, "Missing Data On	
15		15		Celebrex; Full Study	
16		16		Altered Picture Of Drug" 43	
17		17			
18		18	23	8/22 Wall Street Journal	
19		19		article, "Study Hikes	
20		20		Specter of Arthritis	
21		21		Pills' Side Effect,"	
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Pharmacia None Page 181 - 184

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6	transcript of interview,	6 selective COX-2 inhibitors	
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8		8 nonsteroidal anti-	
9		9 inflammatory drugs,	
10	24 8/23/01 e-mail, Dicker	10 00111312 - 00111313 76	
11	to Wahba, 00164630 -	11	
12	00164632 50	12 33 7/14/05 NPR transcript 82	
13		13	
14	25 8/20/01 e-mail, Lefkowith	14 34 12/16/05 NPR transcript 85	
15	to Friedman and Verburg,	15	
16		16 35 6/19/06 Investor's	
17		17 Business Daily article 90	
18		18	
19		19 36 JAMA's authorship form,	
20		20 01714092 - 01714094 92	
21	0053644 60	21	
22		22 37 2/16/00 e-mail string,	
23		23 Wahba to Loose,	
24		24 00081770 - 00081772 95	
		186	1
1	DEPOSITION EXHIBITS	1 DEPOSITION EXHIBITS	
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Pharmacia None Page 185 - 188

					18	19
	1	DE	POSITION EXH	IBITS		
	2	CA	THERINE DE AN	IGELIS		
	3	NUMBER	DESCRIPT	ΓΙΟΝ	PAGE	
	4					
	5	4 JA	MA article, 9/13/0	00,		
	6	"CC	X-2-Selective			
	7	NS	AIDs, New and			
	8	Imp	proved,"	106		
	9					
	10	42 th	ree-page JAMA			
	11	doo	cument	108		
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EXHIBIT 10

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         IN THE UNITED STATES DISTRICT COURT
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                                                                                         APPEARANCES: (Cnt'd)
            DISTRICT OF NEW JERSEY
2
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                                                                                    3
                                                                                              AMERICAN MEDICAL ASSOCIATION
     ALASKA ELECTRICAL PENSION FUND, )
3
                                                                                     4
                                                                                             BY: LEONARD A. NELSON, ESQ.
                                                                                     5
                                                                                             515 North State Street
5
               Plaintiffs, )
                                                                                     6
                                                                                              Chicago, Illinois 60610
6
                       ) No. 03-1519
                                                                                     7
                                                                                              (312) 464-5532
     PHARMACIA CORPORATION, et. al., )
                                                                                     8
                                                                                                   on behalf of deponent.
              Defendants. )
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9
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                                                                                         ALSO PRESENT:
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                                                                                    11
                                                                                              EASTWOOD-STEIN DEPOSITION MANAGEMENT
           Videotaped deposition of DR. DRUMMOND
11
                                                                                    12
                                                                                              BY: DAVID GILLERAN, VIDEOGRAPHER
12
     RENNIE, called by the Plaintiffs for examination,
                                                                                    13
                                                                                              11 South LaSalle Street, Suite 900,
     taken pursuant to subpoena, and by the provisions
13
                                                                                    14
                                                                                              Chicago, Illinois 60603
14
     of the Rules of Civil Procedure for the United
                                                                                    15
                                                                                              (800) 343-0733
15
     States District Courts pertaining to the taking
                                                                                    16
     of depositions, taken before DEBORAH HABIAN,
16
                                                                                    17
     CSR No. 084-002432, a Notary Public within and
17
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     for the County of Cook, State of Illinois, and a
18
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19
     Certified Shorthand Reporter of said State, at
                                                                                    20
     the offices of the American Medical Association,
                                                                                    21
21
     515 North State Street, 14th Floor, Chicago,
                                                                                    22
22
     Illinois, on the 18th day of January, 2007, at
23
     1:30 p.m.
                                                                                    23
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                                                                             2
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     APPEARANCES:
                                                                                     2
                                                                                         WITNESS:
                                                                                                               DX CX RDX RCX
2
                                                                                         DR. DRUMMOND RENNIE
                                                                                     3
                                                                                         BY: MR. MATTHEW MONTGOMERY 08
         LERACH COUGHLIN STOIA GELLER
3
                                                                                         BY: MR. JASON M. HALPER
                                                                                                                          122
         RUDMAN & ROBBINS, LLP
         BY: MATTHEW MONTGOMERY, ESQ.
5
                                                                                         PLAINTIFFS EXHIBITS
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6
         655 West Broadway, Suite 1900
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         San Diego, California 92101-3301
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                                                                                           No. 3
                                                                                                   . . . . . . . . . 23
                                                                                           No. 4
                                                                                                   ..... 62
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         (619) 231-1058
                                                                                    10
                                                                                           No. 21
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               on behalf of the Plaintiffs;
                                                                                           No. 22
                                                                                    11
                                                                                           No. 24
                                                                                                   . . . . . . . . . . 89
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                                                                                           No. 27
11
         CADWALADER WICKERSHAM & TAFT, LLP
                                                                                    12
                                                                                           No. 28
                                                                                           No. 31
                                                                                                    ..... 82
         BY: JASON M. HALPER, ESQ.
12
                                                                                                   . . . . . . . . . 115
                                                                                    13
                                                                                           No. 32
13
            KATHERINE A. RITCHIE, ESQ.
                                                                                           No. 36
                                                                                                   . . . . . . . . . . 100
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         One World Financial Center
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         New York, New York 10281
                                                                                           No. 39
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                                                                                           No. 40
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         (212) 504-6605
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                                                                                                    . . . . . . . . . 29
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              on behalf of the Defendants
                                                                                           No. 43
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               Pharmacia Corporation;
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	THE VIDEOOD ADMED. From the consideration	5	And the assessment to the second of the seco	,
1	THE VIDEOGRAPHER: For the record my name	1	And the reason they brought this suit is that	
2	is David Gilleran. I'm working in conjunction	2	they contend that the Defendants, which are	
3	with Eastwood-Stein Deposition Management, 11	3	Pharmacia Corporation, Pfizer and some of the	
4	South LaSalle Street, Suite 900, Chicago,	4	employees of those companies, made	
5	Illinois.	5	misrepresentations about the drug Celebrex during	
6	This deposition is being videorecorded	6	that time period, and their contention is that,	
7	pursuant to Federal Rule 30(b) and all other	7	by misrepresenting the side effects of the drug,	
8	applicable state and local rules.	8	they inflated the price of Pharmacia stock so	
9	We are at 515 North State Street,	9	that my clients paid too much money for the	
10	Chicago, Illinois to take the videotaped	10	stock, and when the truth about Celebrex came	
11	deposition of Dr. Drummond Rennie in the matter	11	out, the price of the stock dropped and my	
12	of Alaska Electrical Pension Fund Et. Al. vs.	12	clients lost a lot of money.	
13	Pharmacia Corporation, Et. AI,	13	Now, Defendants in this case dispute	
14	Court No. 03-1519 in the U.S. District Court,	14	all of those allegations, but that's what we're	
15	District of New Jersey.	15	here today about.	
16	Today's date is January 18, 2007, the	16	First of all, I'd like to thank you	
17	time is 1:33 p.m. This is taking place on behalf	17	for being here and let you know I'm going to try	
18	of Plaintiff; is that correct?	18	and get the information that I need and get you	
19	MR. MONTGOMERY: That's correct.	19	out of here as soon as possible.	
20	THE VIDEOGRAPHER: This deposition is being	20		
21	videotaped on the behalf of the Plaintiff, it is	21		
22	being taken at the instance of the Plaintiff.	22		
23	And if the court reporter could swear in the	23		
	witness and if the parties would like to identify	24		
24		6	DR DRIMMOND PENNIE	3
1	themselves for the record?	1	DR. DRUMMOND RENNIE, called as a witness herein by the Plaintiffs,	8
			DR. DRUMMOND RENNIE, called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and	8
1 2	themselves for the record? THE REPORTER: Raise your right hand,	1 2	called as a witness herein by the Plaintiffs,	8
1 2 3	themselves for the record? THE REPORTER: Raise your right hand, Doctor.	1 2 3	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and	8
1 2 3 4	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.)	1 2 3 4	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows:	8
1 2 3 4 5	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you.	1 2 3 4 5	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION	8
1 2 3 4 5 6	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from	1 2 3 4 5 6	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY:	8
1 2 3 4 5 6 7	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs.	1 2 3 4 5 6 7	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before?	8
1 2 3 4 5 6 7 8	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for	1 2 3 4 5 6 7 8	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes.	8
1 2 3 4 5 6 7 8	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for the Defendants. And just to clarify, we cross	1 2 3 4 5 6 7 8	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes. Q How many times?	8
1 2 3 4 5 6 7 8 9 10	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for the Defendants. And just to clarify, we cross noticed the deposition.	1 2 3 4 5 6 7 8 9	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes. Q How many times? A Six times, say, seven, eight.	3
1 2 3 4 5 6 7 8 9 10 111	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for the Defendants. And just to clarify, we cross noticed the deposition. MS. RITCHIE: Katherine Ritchie of	1 2 3 4 5 6 7 8 9 10	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes. Q How many times? A Six times, say, seven, eight. Q Okay, so have you ever been deposed in	3
1 2 3 4 5 6 7 8 9 10 11 12	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for the Defendants. And just to clarify, we cross noticed the deposition. MS. RITCHIE: Katherine Ritchie of Cadwalader for the Defendants.	1 2 3 4 5 6 7 8 9 10 11	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes. Q How many times? A Six times, say, seven, eight. Q Okay, so have you ever been deposed in a securities fraud action before?	3
1 2 3 4 5 6 7 8 9 10 11 12 13	themselves for the record? THE REPORTER: Raise your right hand, Doctor. (Witness sworn.) THE REPORTER: Thank you. MR. MONTGOMERY: Matthew Montgomery from Lerach, Coughlin representing the Plaintiffs. MR. HALPER: Jason Halper, Cadawalder, for the Defendants. And just to clarify, we cross noticed the deposition. MS. RITCHIE: Katherine Ritchie of Cadwalader for the Defendants. MR. NELSON: My name is Leonard Nelson. I'm	1 2 3 4 5 6 7 8 9 10 11 12 13	called as a witness herein by the Plaintiffs, having been first duly sworn, was examined and testified as follows: DIRECT EXAMINATION BY MR. MONTGOMERY: Q Have you ever been deposed before? A Yes. Q How many times? A Six times, say, seven, eight. Q Okay, so have you ever been deposed in a securities fraud action before? A No.	8
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Pharmacia None Page 5-8

	9			11
1	want to put on the record before you answer it.	1	establish what we're going to call it. Can you	
2	Do you understand?	2	put on the is that all right with you that you	
3	A Yes.	3	understand that?	
4	Q Okay. Now, I'd like to define a few	4	A Oh, yes, of course.	
5	terms so it will be easier for us as we go along.	5	MR. MONTGOMERY: Okay. All right, at this	
6	Are you familiar with the drug commercially known	6	point, I would like to ask the court reporter to	
7	as Celebrex?	7	mark what would be Exhibit 43.	
8	A Yes.	8	THE WITNESS: Thank you.	
9	Q And are you aware that its chemical	9	MR. MONTGOMERY: For the record, Exhibit 43	
10	name, if that's the right term, is celecoxib?	10	is the subpoena pursuant to which Dr. Rennie is	
11	A Yes.	11	appearing today.	
12	Q Okay, so I'm going to use those terms	12	(Deposition Exhibit No. 43	
13	interchangeably if that's okay with you?	13	was marked for ID)	
14	A Yes.	14	MR. NELSON: Mr. Montgomery, would it be	
15	Q Are you familiar with the celecoxib	15	better if the court reporter were just to keep	
16	Long-Term Arthritis Safety Study?	16	the originals and I were to give the copies to	
17	A Yes.	17	the witness?	
18	Q And I'm going to refer to that also as	18	MR. MONTGOMERY: I'd rather have him look at	
	• •	19	the actual	
19	the class study during your deposition, if that's	20		
20	okay?		MR. NELSON: Okay.	
21	A Yes.	21	MR. MONTGOMERY: (Continuing) exhibits	
22	Q I'm also going to be referring to the	22	that are attached	
23	Journal of the American Medical Association as	23	MR. NELSON: Okay.	
24	JAMA, if that's all right with you?	24	MR. MONTGOMERY: (Continuing) just in	
	10			
	10			12
1	A Yes.	1	case there's a missing page, accident, anything.	12
1 2		1 2	case there's a missing page, accident, anything. MR. NELSON: Fine.	12
	A Yes.			1:
2	A Yes. Q And as I explained before, the	2	MR. NELSON: Fine.	1:
2	A Yes. Q And as I explained before, the Defendants in this case are Pfizer, Pharmacia and	2	MR. NELSON: Fine. BY MR. MONTGOMERY:	1.
2 3 4	A Yes. Q And as I explained before, the Defendants in this case are Pfizer, Pharmacia and certain of their employees. So if I refer to	2 3 4	MR. NELSON: Fine. BY MR. MONTGOMERY: Q Dr. Rennie, have you seen this	1:
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Pharmacia None Page 9 - 12

	13			15
1	Q And what did you do?	1	like what happened before, feel free to let me	
2	A I looked for documents concerning the	2	know, and I'll clarify or	
3	class study.	3	A Yeah.	
4	Q And where did you look for those	4	Q rephrase the question. Also if you	
5	documents?	5	need to take a break at any time, that's fine. I	
6	A I looked for them in my files, my	6	would like if we're in the middle of a series	
7	computer files.	7	of questions, I would like to finish those up,	
8	Q Did you find any?	8	but then we can take any breaks that are	
9	A I found yes.	9	necessary.	
10	Q And what did you find?	10	All right, now, turning to Exhibit 44	
11	A I found slides.	11	in front of you, does this appear to be a copy of	
12	Q How many approximately?	12	your curriculum vitae?	
13	A Three.	13	A Yes, but the bottom's legally	
14	Q Did you find anything else?	14	Q Yes.	
15	A No.	15	A struck out.	
16	MR. MONTGOMERY: All right, I would now like	16	Q Yeah, it's a little cut off, right?	
17	to ask the court reporter to mark what will be	17	A It's because of legal pages being	
18	Exhibit 44.	18	longer than	
19	THE WITNESS: Am I allowed to talk to my	19	Q I see.	
20	· ·	20	A normal pages.	
21	attorney? MR. MONTGOMERY: We can take a break at	20	• •	
		22	Q Other than that, as far as you know,	
22	certain points. You really can't confer during		does it	
23 24	the deposition unless it's a question of whether something's	23 24	A Yeah. Q appear to be up-to-date?	
			a appear to see up to date.	
	14			16
1	MR. NELSON: Well, do you want	1	A I believe it to be up-to-date. It	
2	MR. MONTGOMERY: Sure.	2	it's the latest version I have.	
3	MR. NELSON: This is not critical. We're	3	Q All right, on the bottom of the first	
4	not interrupting anything.	4	page of Exhibit 44, there's a section for	
5	MR. MONTGOMERY: Certainly not.	5	"Present Positions Held". Do you see that?	
6	MR. NELSON: So since the witness has a	6	A Yes.	
7	question, let's take a short break, Dr. Rennie,	7	Q And as you noted, some parts of that	
8	and I'll step outside with you because if there's	8	have been cut off. Is one of the positions that	
9	a matter of a concern, let's talk about it.	9	would be listed there if it were complete the	
10	MR. MONTGOMERY: Yeah, let's go off the	10	a position at JAMA?	
11	record, please.	11	A Yes.	
12	(Recess taken off the record.)	12	Q And what is that position?	
13	(Deposition Exhibit No. 44	13	A Deputy Editor.	
14	was marked for ID)	14	Q And do you currently hold that	
15	MR. MONTGOMERY: All right, back on the	15	position?	
	-	16	A Yes.	
16	record, please.	ı	Q How long have you had it?	
16 17	THE VIDEOGRAPHER: Recording.	17	Q How long have you had it:	
		17 18	A I've had the same job since 1988 or	
17	THE VIDEOGRAPHER: Recording.			
17 18	THE VIDEOGRAPHER: Recording. BY MR. MONTGOMERY:	18	A I've had the same job since 1988 or	
17 18 19	THE VIDEOGRAPHER: Recording. BY MR. MONTGOMERY: Q All right, Dr. Rennie, do you	18 19	A I've had the same job since 1988 or since 1983. It's a matter of what it was called.	
17 18 19 20 21	THE VIDEOGRAPHER: Recording. BY MR. MONTGOMERY: Q All right, Dr. Rennie, do you understand you're still under oath? A I do.	18 19 20	A I've had the same job since 1988 or since 1983. It's a matter of what it was called. Q What was it called in 1983? A Associate Editor.	
17 18 19 20	THE VIDEOGRAPHER: Recording. BY MR. MONTGOMERY: Q All right, Dr. Rennie, do you understand you're still under oath?	18 19 20 21	A I've had the same job since 1988 or since 1983. It's a matter of what it was called. Q What was it called in 1983?	

Pharmacia None Page 13 - 16

	17			19
1	Q And what are your specific	1	understanding of what information should and	
2	responsibilities at JAMA?	2	maybe should not be included in medical journal	
3	A I my first task is to read the	3	articles?	
4	manuscripts that are sent in to assess their	4	MR. HALPER: Objection to form.	
5	scientific validity and importance, to have them	5	THE WITNESS: That's a very full question,	
6	reviewed or not by experts that I know to assess	6	and I can expand on that, if you wish.	
7	those and to improve the very few we accept and	7	BY MR. MONTGOMERY:	
8	to, well, select them and to improve them, and	8	Q Please.	
9	then to do a whole slew of other things which	9	A If I'm being sent an editorial, then I	
10	have to do with editorial matters, but not	10	know that's an opinion. If I'm sent a	
11	administrative ones because I'm at the University	11	commentary, that's an opinion, and I'll allow a	
12	of California in San Francisco, and that was the	12	lot my opinion will be to allow a great deal	
13	deal.	13	more laxity.	
14	Q Do you review manuscripts about a	14	If I'm being sent a paper that	
15	particular medical area?	15	examines, say, the health effects of	
16	A They tend the answer's yes, sort	16	post-menopausal hormones on thousands of women,	
17	of. I tend to be sent manuscripts that are	17	I'll demand much higher, rigorous standards. If	
18	within my specialty, which is of renal disease	18	I'm sent one on a randomized trial where	
19	and things that interest me, for example,	19	everything can be very well defined beforehand,	
20	statistical and epidemiologic problems that we	20	not only can, but must be, I'll demand a higher	
21	aren't supposed to have in general and of	21	standard still.	
22	certainly areas like that, areas of particular	22	Q Let me be more specific then. Do you	
23	interest to me.	23	believe, based on your experience, that you have	
24	Q Who chooses the articles that are sent	24	an understanding of what sort of data from	
	18			
				20
1		1	randomized trials should be included in journal	20
1 2	to you to review?	1 2	randomized trials should be included in journal articles?	20
2	to you to review? A One of the editors in situ here, which	2	articles?	20
2	to you to review? A One of the editors in situ here, which I believe is either Dr. Phil Fontanarosa or	2 3	articles? MR. HALPER: Objection to form.	20
2 3 4	to you to review? A One of the editors in situ here, which I believe is either Dr. Phil Fontanarosa or Dr. Richard Glass. But I never know in any one	2 3 4	articles? MR. HALPER: Objection to form. THE WITNESS: Yes.	20
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Pharmacia None Page 17 - 20

1	THE WITNESS: Yeah.	1	to be included in JAMA articles?	23
		2	A Yes.	
2	MR. NELSON: And if you said, I don't			
3	understand it, I can't formulate an answer the	3	MR. HALPER: Object to the form.	
4	way it's phrased, then it will be Counsel's, you	4	BY MR. MONTGOMERY:	
5	know, burden to rephrase it.	5	Q I'd like to show the witness what's	
6	THE WITNESS: Perhaps Mr. Montgomery,	6	previously been marked as Exhibit 3.	
7	perhaps you'd	7	A Thank you.	
8	MR. MONTGOMERY: Sure.	8	Q Before we turn to Exhibit 3, I'd like	
9	THE WITNESS: (Continuing) say it again	9	to ask one more question along the lines that we	
10	or	10	were talking about before.	
11	BY MR. MONTGOMERY:	11	You stated that, is it correct, that	
12	Q Maybe it would be easier to approach	12	in your experience clinicians reading JAMA expect	
13	it from are there specific types of readers of	13	all relevant data to be included from clinical	
14	JAMA whose expectations you think you might be	14	trials and articles? Is that correct?	
15	unfamiliar with?	15	MR. HALPER: Objection to form.	
16	MR. HALPER: Objection to form.	16	THE WITNESS: Yeah.	
17	THE WITNESS: That, I I don't know. I	17	BY MR. MONTGOMERY:	
18	don't know, but I would have thought, and this is	18	Q Do you believe that you're qualified	
19	pure speculation, that if you're a patient, you'd	19	to assess what data in a particular study is	
20	have a lot of difficulty reading a trial or	20	relevant and should be included in JAMA articles?	
21	critiquing it, which is another issue.	21	A Yes.	
22	BY MR. MONTGOMERY:	22	MR. HALPER: Objection to form.	
23	Q All right, over the years, have you	23	BY MR. MONTGOMERY:	
24	had regular communications with clinicians that	24	Q Okay, turning to Exhibit 3, have you	
	22			2
1	read JAMA for their own medical practices?	1	seen this before?	2
1 2	read JAMA for their own medical practices?	1 2	seen this before? A Yes.	2
1 2 3	read JAMA for their own medical practices? A Yes.	1 2 3	A Yes.	2
2	read JAMA for their own medical practices? A Yes. Q And based upon those conversations, do	2	A Yes. Q Is it a copy of an article from JAMA	2
2 3 4	read JAMA for their own medical practices? A Yes. Q And based upon those conversations, do you feel that you have an understanding of what	2 3 4	A Yes. Q Is it a copy of an article from JAMA concerning the class study?	2
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2 3 4 5 6	read JAMA for their own medical practices? A Yes. Q And based upon those conversations, do you feel that you have an understanding of what sorts of data those clinicians expect to be included in JAMA articles about randomized	2 3 4 5 6	A Yes. Q Is it a copy of an article from JAMA concerning the class study? A Yes. Q And for the purposes of our	2
2 3 4 5 6 7	read JAMA for their own medical practices? A Yes. Q And based upon those conversations, do you feel that you have an understanding of what sorts of data those clinicians expect to be included in JAMA articles about randomized trials?	2 3 4 5 6 7	A Yes. Q Is it a copy of an article from JAMA concerning the class study? A Yes. Q And for the purposes of our deposition, I'm just going to call this the JAMA	2
2 3 4 5 6 7 8	read JAMA for their own medical practices? A Yes. Q And based upon those conversations, do you feel that you have an understanding of what sorts of data those clinicians expect to be included in JAMA articles about randomized trials? A No.	2 3 4 5 6 7 8	A Yes. Q Is it a copy of an article from JAMA concerning the class study? A Yes. Q And for the purposes of our deposition, I'm just going to call this the JAMA article, if that's okay with you?	2
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Pharmacia None Page 21 - 24

4	25	_	about the class study	2
1	JAMA?	1	about the class study.	
2	A No, I did not.	2	And I was upset no, I was well,	
3	Q After the publication of Exhibit 3,	3	the technical term was I was pissed off that	
4	did you have occasion to speak for JAMA	4	there seemed to be a discrepancy. But, again, I	
5	concerning this article in any forum?	5	had nothing to do with it, and I was aware that	
6	A No, and yes, I spoke. I did not	6	my colleagues were worrying about this, and they	
7	speak for JAMA. I think in every case, I make	7	were the ones who could do something about it. I	
8	that very clear.	8	didn't draw this to their attention.	
9	Q Did you take any steps at the	9	Q What did you do that led you to the	
10	direction of JAMA concerning the JAMA article?	10	conclusion that there was some sort of	
11	A I don't understand the question.	11	discrepancy?	
12	Q Did anyone at JAMA ask you to do	12	A This must be, my guess would be, the	
13	anything having to do with this article,	13	beginning of 2001 that for one reason or another,	
14	Exhibit 3?	14	and I'm hazarding a guess here, I had the	
15	A No.	15	feeling I sort of vaguely remember a lawsuit	
16	Q After Exhibit 3 was published, did you	16	or a or perhaps it was just a Freedom of	
17	have occasion to look into the context in which	17	Information Request to the FDA filed by something	
18	it was published or the let me let me	18	like Public Citizen or whatever which caused the	
19	rephrase. Strike that question.	19	full details of what was not just one, but two	
20	After the publication of Exhibit 3,	20	trials of differing lengths and much longer than	
21	did you have occasion to look into the details of	21	this to be put in the public domain. And then it	
22	the class study?	22	is no surprise at all to find that those who read	
23	A Yes.	23	that blame the editors for not knowing this.	
24	Q And what prompted that?	24	Q When you say	
	26			2
1		1	A I seem to remember that, and so I can	2
1 2	A I got now, I'm remembering something I have not looked up. Indeed, I	1 2	A I seem to remember that, and so I can only suppose, but this is a guess. I'm guessing	2
	A I got now, I'm remembering			2
2	A I got now, I'm remembering something I have not looked up. Indeed, I	2	only suppose, but this is a guess. I'm guessing	:
2	A I got now, I'm remembering something I have not looked up. Indeed, I haven't looked this up (indicating). I got an e-mail from somebody in	2	only suppose, but this is a guess. I'm guessing how I got there.	2
2 3 4	A I got now, I'm remembering something I have not looked up. Indeed, I haven't looked this up (indicating).	2 3 4	only suppose, but this is a guess. I'm guessing how I got there. Q When you say when said "longer than	2
2 3 4 5	A I got now, I'm remembering something I have not looked up. Indeed, I haven't looked this up (indicating). I got an e-mail from somebody in British Columbia called Wright, with a W, who was a member of the Cochrane Collaboration, which is	2 3 4 5	only suppose, but this is a guess. I'm guessing how I got there. Q When you say when said "longer than that" in your response, did you mean Exhibit 3,	2
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Pharmacia None Page 25 - 28

	29			31
1	MR. MONTGOMERY: I'm sorry, this has	1	MR. MONTGOMERY: Yes.	
2	previously been marked as Exhibit 42.	2	THE REPORTER: Okay.	
3	THE REPORTER: Want to take it back?	3	(Record read.)	
4	MR. MONTGOMERY: Yes. If you could hand	4	BY MR. MONTGOMERY:	
5	that back to the court reporter, she'll fix it.	5	Q All right, when you said "this was not	
6	THE WITNESS: (Tendering document)	6	a true representation"	
7	BY MR. MONTGOMERY:	7	A (Indicating document).	
8	Q Let's see, Exhibit 42 is a reflection	8	Q did you mean Exhibit 3, the JAMA	
9	of the slides that you were referring to that you	9	article?	
10	created?	10	A The JAMA article.	
11	A Right.	11	Q Okay, so going back to Exhibit 42 for	
12	Q And why did you recreate these slides?	12	a second, did you create these slides for any	
13	A I'm interested in authorship, which as	13	particular presentation?	
14	far as academics is where the rubber hits the	14	A Yes.	
15	road, and I'm interested in an authorship, and	15	Q And do you recall what it was?	
16	I've got many publications on this and I've	16	A Well, I'm may I just I said yes	
17	changed things a lot.	17	too quickly. I created this slide for I	
18	Authorship gets one credit.	18	believe, for a I got a prize in Washington.	
19	Authorship also means responsibility, without	19	Q Again, it might be on your CV, if you	
20	being too pompous about it. And here, it seemed	20	want to refresh your recollection.	
21	to me, that the authors had shed their	21	A And they the Association of	
22	responsibility.	22	American Medical Colleges and so on wanted I	
23	Q And why do you believe that?	23	went up to Washington to get this damn thing, and	
24	A I believe they did it for commercial	24	I they wanted me to give a lecture on this, on	
	30			32
1	reasons, and that was my guess.	1	this on authorship, the responsibilities of	
2	Q I'm sorry, what I meant when I asked	2	authorship and so on, and I suspect that this was	
3	you why, I meant what basis do you have for	3	part of that lecture.	
4	believing that they didn't live up to their	4	And when I say "suspect", I have it, I	
5	responsibilities?	5	have these slides, not because I had that	
6	A At this time, and that's why I'm	6	lecture, but because I've used it since because	
7	having difficulty remembering exactly what I saw	7	this is by no means isolated. This set of	
8	on the FDA website, which I visited for all sorts	8	occurrences is every one is unique, but the	
9	of reasons at various times, I can't remember	9	general point is I've seen it before. We have	
10	but there was a great deal of publicity about	10	seen it before. Editors see it.	
11	this (indicating), and the central point about	11	Q And what is the central point, as you	
12	all that was that this (indicating) was not a	12	understand it?	
13	true representation of what had actually	13	A The central point is telling giving	
14	happened.	14	a faithful representation of what the researchers	
15	Q By "this", do you mean Exhibit 3, the	15	believe to be the truth to the editors were	
1 .0			the surrogates for the readers, and therefore, to	
16	JAMA article?	l in		
16 17	JAMA article? A In other words, that my journal had	16	the readers.	
17	A In other words, that my journal had	17	the readers. O And you believe that the JAMA article	
17 18	A In other words, that my journal had not been provided with a face a faithful	17 18	Q And you believe that the JAMA article	
17 18 19	A In other words, that my journal had not been provided with a face a faithful representation of what happened, and that, seen	17 18 19	Q And you believe that the JAMA article did not represent a faithful presentation of	
17 18 19 20	A In other words, that my journal had not been provided with a face a faithful representation of what happened, and that, seen from the point of view of an editor, is	17 18 19 20	Q And you believe that the JAMA article did not represent a faithful presentation of information?	
17 18 19 20 21	A In other words, that my journal had not been provided with a face a faithful representation of what happened, and that, seen from the point of view of an editor, is upsetting.	17 18 19 20 21	Q And you believe that the JAMA article did not represent a faithful presentation of information? A Yes, on the basis of what my	
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17 18 19 20 21 22 23	A In other words, that my journal had not been provided with a face a faithful representation of what happened, and that, seen from the point of view of an editor, is upsetting. MR. MONTGOMERY: Could you read back his previous response?	17 18 19 20 21 22 23	Q And you believe that the JAMA article did not represent a faithful presentation of information? A Yes, on the basis of what my colleagues told me, my colleagues in this building and what I then read.	
17 18 19 20 21 22	A In other words, that my journal had not been provided with a face a faithful representation of what happened, and that, seen from the point of view of an editor, is upsetting. MR. MONTGOMERY: Could you read back his	17 18 19 20 21 22	Q And you believe that the JAMA article did not represent a faithful presentation of information? A Yes, on the basis of what my colleagues told me, my colleagues in this	

Pharmacia None Page 29 - 32

			2.4	
	33			35
1	A Well, there were a number of problems	1	A that's very painful, indeed, to an	
2	with this, which I seem which I think I listed	2	editor to think it once published something that	
3	on the slide. The I think the FDA made it	3	doesn't hold up. Not hold up for scientific	
4	rather more clear than I did, and that's why, as	4	reason, but hold up for unscientific reasons.	
5	I recollect, I either copied or used or made some	5	Q On your slide here well, before we	
6	sort of amalgamation of what I thought and what	6	move on, following up to your last response, when	
7	the FDA thought. I've not looked this up again.	7	you said there were tremendous sales, did you	
8	Q Okay, well, let's look at the second	8	mean sales of Celebrex?	
9	page of Exhibit 42, please.	9	A There was a tune, yes.	
10	A (Witness so doing).	10	Q All right, going back to your slide,	
11	Q And is that a slide that you	11	the second page of Exhibit 42, there's a line	
12	personally created?	12	item toward the bottom of that page, the second	
13	A Yes.	13	page that says "Editors"?	
14	Q All right, at the bottom, the very	14	A Yes.	
15	last entry, it says, "Sponsors". Do you see	15	Q And were you referring to the editors	
16	that?	16	of JAMA?	
17	A Yes.	17	A Yes.	
18	Q And who are you referring to there?	18	Q And after that, it says, "exasperated,	
19	A I think it was Pharmacia. I can	19	furious"?	
20	check. (Reviewing document). Yes.	20	A Yes.	
21	Q All right, after that, you say,	21	Q Was that characterizing the response	
22	"laughing to bank"?	22	of the JAMA editors?	
23	A Yes.	23	A Well, certainly one of them. Two of	
24	Q And what did you mean by that?	24	them, actually.	
	Q 7.110 III.d die you noan by that		tion, actually.	
	34			36
1	A The total of what I meant is this: It	1	Q And who are they?	
2	took a long time between the publication in JAMA,	2	A Dr. DeAngelis and myself.	
3	which is a very difficult thing to get, and the	3	Q All right, we're going to go through a	
4	revelation in our Letters to the Editor that	4	lot of documents. So you can put that one to the	
5	something had gone wrong and also the FDA	5	side, but I'd like you to keep out Exhibit 3,	
6	website.	6	which is the JAMA article because we're going to	
7	And during that time, which may have	7	keep going back to that one, okay?	
8	been six months, nine months, as I remember,	8	I'd like to ask the court reporter to	
9	there was a very considerable advertising going	9	mark what will be Exhibit 45.	
10	on, which was relevant to me because I'm a	10	(Deposition Exhibit No. 45	
11	third-rate climber, but I've been on a very large	11	was marked for ID)	
12	number of big expeditions all over the world,	12	MR. MONTGOMERY: For the record, Exhibit 45	
13	third-rate because I don't climb enough, and I	13	is an article from the Global News Wire dated	
14	need something for all the things I've damaged.	14	December 9th, 2005, specifically it's a	
15	And so it was nice to think I'd be able to skate	15	transcript purports to be a transcript of an	
16	and do all these other things, which I've never	16	interview between Maria Bartiromo, yourself and	
17	been able to do before, but what I was seeing was	17	another individual.	
18	an enormous on the basis of this (indicating),	18	BY MR. MONTGOMERY:	
19	perhaps, and others, I was seeing a tremendous	19	Q Now, Dr. Rennie, I'm going to be	
20	amount of publicity and sales, in fact. And I	20	giving you a lot of documents today to look	
21	remembered that particularly afterwards when	21	through. And you're entitled to read every word	
22	there seemed to be problems with the with what	22	of every page if you want to, but it may move	
23	we published because	23	things along if I just point you to the parts	
24	Q When you say "sales"	24	that I want to talk about; and then if you feel	

Pharmacia None Page 33 - 36

	37			39
1	you need more context, you can read the whole	1	because the authors believed the six-month data	
2	thing.	2	were the most scientifically and clinically	
3	In this particular document, I'm only	3	valid. The data after six months were so	
4	going to ask you about your quotes well, first	4	confounded as to be difficult to interpret for	
5	I'm going to ask you about your quote in the	5	assessing a drug-related causal GI toxicity."	
6	third paragraph of this document. So if you	6	Q So to be clear, is it correct to say	
7	could take a moment and read through that?	7	that you believed that the authors of the JAMA	
8	A (Witness so doing).	8	article had lied to JAMA because they had only	
9	Q Okay, I'd like to direct you to your	9	presented six months of the class study instead	
10	quote in the third paragraph. First of all, do	10	of a longer dataset?	
11	you recall this interview?	11	A Yes.	
12	A Yes.	12	Q Why do you believe that that was	
13	Q Okay. MI'd like to read part of your	13	deceptive?	
14	quote into the record. It says, "While editors	14	A Because, as I recollect, they there	
15	depend on the researchers not lying to them, and	15	were actually two studies that were amalgamated,	
16	that's exactly what they did to the New York	16	and that wasn't made clear. The one clear one	
17	I'm sorry, "the New England Journal of Medicine	17	study, again, as I recollect, was twelve months	
18	and that's exactly what the some authors dealing	18	and the other was whatever it is, fourteen	
19	with the paper on Celebrex did to JAMA five years	19	months, something like that. The figure I have	
20	ago." Do you see that?	20	in my mind is 65 weeks or something. And above	
21	A Yes.	21	all, they had the results in their pockets.	
22	Q And as far as you know, is that a	22	Now, it isn't straight dealing.	
23	correct quote?	23	Science operates cannot operate with police in	
24	A Yes.	24	the lab. It can't be done. There has to be	
	38			40
1	Q And the paper on Celebrex that you	1	trust, and there has to be trust amongst	
2	referred to jethet the IANAA orticle			
	referred to, is that the JAMA article	2	scientists and scientists with journals.	
3	A Yeah.	3	scientists and scientists with journals. And so you expect straight dealing,	
3 4				
	A Yeah.	3	And so you expect straight dealing,	
4	A Yeah. Q we've been discussing?	3 4	And so you expect straight dealing, and this wasn't straight dealing. They knew	
4 5	A Yeah. Q we've been discussing? A I guess I got the date wrong, didn't	3 4 5	And so you expect straight dealing, and this wasn't straight dealing. They knew results, which could be interpreted by others as	
4 5 6	A Yeah. Q we've been discussing? A I guess I got the date wrong, didn't I?	3 4 5 6	And so you expect straight dealing, and this wasn't straight dealing. They knew results, which could be interpreted by others as showing no effect, and those were not revealed.	
4 5 6 7	A Yeah. Q we've been discussing? A I guess I got the date wrong, didn't 1? Q But as far as it is the JAMA	3 4 5 6 7	And so you expect straight dealing, and this wasn't straight dealing. They knew results, which could be interpreted by others as showing no effect, and those were not revealed. The editors weren't even given the	
4 5 6 7 8	A Yeah. Q we've been discussing? A I guess I got the date wrong, didn't I? Q But as far as it is the JAMA article that you were referring to?	3 4 5 6 7 8	And so you expect straight dealing, and this wasn't straight dealing. They knew results, which could be interpreted by others as showing no effect, and those were not revealed. The editors weren't even given the chance of saying apparently, weren't given the	
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Pharmacia None Page 37 - 40

1	41 A I found it deceptive and, again, I		fundamental that if you decign a study that's	43
1		1	fundamental that if you design a study that's	
2	did not handle this. All of this happened before	2	designed to do certain things, a whole lot of	
3	I knew, okay?	3	statisticians and clinicians get together and	
4	But what I found particularly	4	design a study, then you don't chop and change	
5	distasteful was something that had re it	5	with it en route because you change all sorts of	
6	reminded me of that had happened in 1978 when I	6	aspects about it including its statistical	
7	was at Harvard and the Deputy Editor of New	7	credibility if you do that.	
8	England Journal, and that was when two authors	8	So those are two answers, a clinical	
9	submitted and published on the same day in two	9	one and a meaning answer.	
10	different journals, one of them being JAMA one	10	Q Are you familiar with the statistical	
11	of them being the New England Journal results,	11	term "type one error"?	
12	which were completely contradictory.	12	A Yeah.	
13	And their excuse was, yes, they knew	13	Q Okay.	
14	the other results, but they didn't like to refer	14	A Well, yes, but I'm not a statistician,	
15	to unpublished work in a published work, which on	15	and I emphasize I am not a statistician. I	
16	the face of it is, of course, ludicrous and	16	definitely am not.	
17	disingenuous.	17	Q Are you do you have an	
18	Now, I'm just try you asked me	18	understanding of type two error as well?	
19	about my reaction here. And other editors were	19	A I think so.	
20	more vocal, perhaps, about it then I was, but I	20	Q And	
21	felt that if you don't give people a chance to	21	A But I'm not going to enlarge on that.	
22	see basic results, like basic facts of the	22	Q All right, going back to Exhibit 45,	
23	design such as how many trials were there and how	23	would you please look at the second page?	
24	long did they last and what were they designed	24	A (Witness so doing).	
	42			44
1	for and how what was that design those are	1	Q In the second full paragraph, there's	
2	basic things then you are being deceptive.	2	a quote by you I'm going to read into the record.	
3	Q I don't want to put words in your	3	It says, "That may be so, but the fact is that we	
4	mouth. I just want to try and condense that.			
5		4	have these cases, for example, the class study,	
		4 5		
6	So would it be fair to say that you found the specific data that was omitted from the		have these cases, for example, the class study, for example, the bigger study about which the	
6 7	So would it be fair to say that you found the specific data that was omitted from the	5 6	have these cases, for example, the class study, for example, the bigger study about which the present fuss is going on, where journals were	
7	So would it be fair to say that you found the specific data that was omitted from the JAMA article to be deceptive because it was so	5 6 7	have these cases, for example, the class study, for example, the bigger study about which the present fuss is going on, where journals were very directly lied to and misled." Do you see	
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Pharmacia None Page 41 - 44

	45			
1	correction that you made?	1	court reporter to mark what will be Exhibit 46.	
2	A Yes.	2	(Deposition Exhibit No. 46	
3	Q And	3	was marked for ID)	
4	A Yes.	4	THE VIDEOGRAPHER: If I could just switch	
5	Q when you say, "where journals were	5	tapes here?	
6	very directly lied to and misled," were you	6	MR. NELSON: All right, why don't we take	
7	referring by example to the authors of the JAMA	7	five minutes?	
8	article lying to and misleading JAMA?	8	MR. MONTGOMERY: Sure.	
9	A Yes. And the Advantage VIGOR and	9	THE VIDEOGRAPHER: This is the end of	
10	approve studies which had to do with rofecoxib or	10	Video 1. The time is 2:33 p.m. The running time	
11	Vioxx. Actually well	11	of this tape is 58 minutes and 59 seconds.	
12	Q Do you mean to say that you had an	12	(Recess taken.)	
13	opinion that the authors of an article about that	13	THE VIDEOGRAPHER: This is the start of	
14	study had also lied to	14	Video No. 2. The time is 2:41 p.m.	
15	A No.	15	MR. MONTGOMERY: All right, for the record,	
16		16	Exhibit 46 is a transcript of an interview on ABC	
17 18	(Continuing) to some journal? Go ahead.	17	dated May 29th, 2002. BY MR. MONTGOMERY:	
18	A Mr. Montgomery, I'm so sorry, I	18		
19	interrupted you. Would you mind asking your	19	Q It's I think it's right there	
20	question again?	20	(indicating). Now, I'm only going to ask you	
21	Q Sure. I'm just trying to understand	21	about a quote on Page 79 of the interview, but	
22	the relevance of VIGOR as you were just	22	feel free to look through as much of it as you	
23	explaining it in your quote here as distinct from	23	need.	
	46			
1	A I'm just saying that in both the class	1	Q 79.	
1 2		2	Q 79. A Thank you.	
	A I'm just saying that in both the class			
2	A I'm just saying that in both the class study and the VIGOR study, and indeed in the	2	A Thank you.	
2	A I'm just saying that in both the class study and the VIGOR study, and indeed in the other ones, misrepresentations were made by the	2	A Thank you. Q All right, do you recall this	
2 3 4	A I'm just saying that in both the class study and the VIGOR study, and indeed in the other ones, misrepresentations were made by the authors to the journals, but the important ones	2 3 4	A Thank you. Q All right, do you recall this interview in general?	
2 3 4 5	A I'm just saying that in both the class study and the VIGOR study, and indeed in the other ones, misrepresentations were made by the authors to the journals, but the important ones are the class and the VIGOR ones.	2 3 4 5	A Thank you. Q All right, do you recall this interview in general? A Yeah. Poor Peter Jennings.	
2 3 4 5 6	A I'm just saying that in both the class study and the VIGOR study, and indeed in the other ones, misrepresentations were made by the authors to the journals, but the important ones are the class and the VIGOR ones. Q All right, going back to the quote we	2 3 4 5 6	A Thank you. Q All right, do you recall this interview in general? A Yeah. Poor Peter Jennings. THE REPORTER: I'm sorry, what did you say?	
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Pharmacia None Page 45 - 48

	49			51
1	Q And do you still agree with that	1	Q Do you have any reason to believe that	
2	statement?	2	it there's any incorrect data in the JAMA	
3	A Yes.	3	article?	
4	Q Do you believe that that is a fair	4	A I just don't know.	
5	characterization of the JAMA study at issue here?	5	Q All right, let's assume, if you will,	
6	MR. HALPER: Objection to form.	6	that all of the data in the JAMA article is	
7	THE WITNESS: I'd like you to restate that	7	correct as presented.	
8	question, because I never thought of it like	8	A (Nodding).	
9	that.	9	Q Okay, given that assumption, would you	
10	BY MR. MONTGOMERY:	10	still believe that the presentation was	
11	Q Sure. All right, I'm going to be	11	deceptive?	
12	asking specifically about the JAMA article	12	A The issue here yes, because the	
13	A Yes.	13	issue has to do with the presentation of how long	
14	Q and I'll just take it one piece at	14	a study, how many studies and the full results	
15	a time here.	15	Q All right, let me	
16	A Yeah.	16	A or the fuller results.	
17	Q The first part of your quote says, "If	17	Q I don't mean to be repetitive, but let	
18	only the good news about a drug is published and	18	me just clarify.	
19	never the bad news". So would it be fair to say	19	Why do you believe that the JAMA	
20	in your estimation that the JAMA article included	20	article would be deceptive even if all of the	
21	the good news, but did not include the bad news?	21	data it contains concerning six months was	
22	MR. HALPER: Objection to form.	22	completely accurate?	
23	THE WITNESS: I think it might hurry things	23	A Well, if a study went on for a year or	
24	up if I say that publication bias, which is the	24	whatever and it's represented that the entire	
4	50	1	atudu in air maatha and thora in athan annata	52
1	tendency of authors to complete, researchers to	1	study is six months and there is other aspects	52
2	tendency of authors to complete, researchers to complete and submit to journals and get published	2	how so, then that is in the nature of things	52
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Pharmacia None Page 49 - 52

	53			55
1	A No.	1	has to be done all the time. That's science.	
2	Q Okay.	2	You have to make judgments, but cherry picking is	
3	A No.	3	rather easier to judge in a trial than most	
4	Q All right, please take a look at the	4	because doing a trial is exceedingly expensive,	
5	second page.	5	very tedious, an enormous undertaking, and I have	
6	A (Witness so doing).	6	huge sympathy with the pharmaceutical companies	
7	Q The first full email where it says,	7	that have to undertake this, huge. It's very	
8	"Dear All," do you see that?	8	difficult to accomplish that task.	
9	A Yes.	9	But the rules were laid out in 1948 by	
10	Q And you see it says "Please find	10	four people, still alive well, one died at 106	
11	attached two draft CLASS manuscripts (GI and CV)	11	the other day. The rules for doing a blinded,	
12	from Jim Lefkowith's group." Do you see that?	12	randomized clinical trial were laid out and have	
13	A Yes.	13	been refined since, but there's no Nobel Prize	
14	Q All right, now, I'd like to direct you	14	waiting for anyone who does a good clinical	
15	to the first page. See the first full email	15	trial.	
16	there that starts with "Dear All"?	16	It's all there are books about how	
17	A Yes.	17	to do it, and what and so selecting data in a	
18	Q And there's a quote, it says, in the	18	clinical trial, you can decide beforehand what	
19	second paragraph, second sentence, "We are also	19	you're going to select, for example, and you've	
20	cherry picking the data (using six months as	20	got to be exceedingly careful not to select the	
21	6 m as a study duration)." Do you see that?	21	data in a selective way, positively way. And	
22	A Yes.	22	it's very difficult. You have to abandon all	
23	Q Did you see it?	23	your feelings. It's very difficult. Boy,	
24	A Yes.	24	that's hum.	
	54			56
1	Q Okay. Have you heard the term "cherry	1	Q So is it your understanding that the	56
1 2		1 2	Q So is it your understanding that the rules regarding the conduct of clinical trials	56
	Q Okay. Have you heard the term "cherry			56
2	Q Okay. Have you heard the term "cherry picking" in the context of medical studies	2	rules regarding the conduct of clinical trials	56
2	Q Okay. Have you heard the term "cherry picking" in the context of medical studies before?	2	rules regarding the conduct of clinical trials prohibit the cherry picking of data?	56
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Pharmacia None Page 53 - 56

	atalian and to an admirable and to be a state of	57	right hand correction and de 477. We a Date	5
1	picking used in an admirable way in statistics or	1	right-hand corner is ends 477. It's a Bates	
2	anything else.	2	number we refer to those as just in case all	
3	Q All right, having read the JAMA	3	right, I'd like you to look at the third full	
4	article, did did it disclose that the authors	4	paragraph that starts with "a bit of data	
5	were cherry picking the data was presented in	5	massage".	
6	that article?	6	Okay, I'll read it into the record.	
7	MR. HALPER: Objection to form.	7	"With a bit of data massage, what Steve Geis and	
8	THE WITNESS: I'd answer that by saying	8	his team have done is to focus on the 6 month	
9	they chose to disclose the six-month data. I	9	data, for no other reason that than it happens to	
10	think that's something slightly different than	10	look better, and this time they concentrate on	
11	what I would call cherry picking, but I grew up a	11	the non-aspirin treated patients, and ignore the	
12	physiologist doing a different type of research	12	fact that at no time interval did we see a	
13	in general, though I have published a randomized	13	statistically significant difference with	
14	clinical trial, at least one. I don't know if	14	diclofenac, whether one looks at patients taking	
15	I've done more.	15	aspirin or not, at 6 or at 12 months."	
16	BY MR. MONTGOMERY:	16	•	
17	Q Just to clarify your answer there, did	17	before?	
18	you mean to say that it's your understanding that	18		
19	the JAMA article disclo actually, can you read	19		
20	his response back?	20	•	
	·		in the context of clinical studies before?	
21	THE REPORTER: Sure.	21		
22	(Record read.)	22		
23 24	BY MR. MONTGOMERY: Q All right, so what you were describing	23	Q And do you have a general understanding of what it means?	
		58		6
1	there, to be clear, were you saying that's what	58	MR. HALPER: Objection to the form.	6
1 2	there, to be clear, were you saying that's what the JAMA article was saying, that it was		MR. HALPER: Objection to the form. THE WITNESS: Yes.	€
		1		6
2	the JAMA article was saying, that it was	1 2	THE WITNESS: Yes.	6
2	the JAMA article was saying, that it was presenting certain data as opposed to cherry	1 2 3	THE WITNESS: Yes. BY MR. MONTGOMERY:	6
2 3 4	the JAMA article was saying, that it was presenting certain data as opposed to cherry picking or were you saying in your opinion there	1 2 3 4	THE WITNESS: Yes. BY MR. MONTGOMERY: Q Generally speaking, what's your	€
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Pharmacia None Page 57 - 60

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ONTGOMERY: All right, I'll rephrase on, actually. IONTGOMERY:	14	sentence in this editorial. It's on the second
on, actually.		
ONTGOMERY:		column of the first page, the first full
	15	paragraph that starts "Previous studies". Do you
aving read the JAMA article, to your	16	see that paragraph?
3 · · · · · · · · · · · · · · · · · · ·	17	A Yes.
e, is that fact, that Steve Geis and his	18	Q All right, in the middle of that
sed on the six month data, for no other	19	paragraph, there's a description of the class
an it happens to look better, disclosed	20	study. It starts, "In this issue". Do you see
	21	that?
ALPER Objection to the term "foot"		
ALPER: Objection to the term "fact".	22	A Yeah.
/ITNESS: I don't believe so. ONTGOMERY: I'd like to ask the witness	23	Q All right, I'll read that into the
		record. It says, "In this issue of THE JOURNAL,
62		
what's previously been marked as	1	Silverstein et. al. report the results of a
	2	6-month randomized, double-blind, controlled
ELSON: Thank you.	3	trial comparing the ulcerogenic potential and
ONTGOMERY: Oh, wait. I'm sorry, I	4	upper GI toxicity of celecoxib in individuals
vrong can we go off the record for a	5	with osteoarthritis (OA) or rheumatoid arthritis
	6	(RA)." Do you see that?
(Discussion off the record.)	7	A Yes.
ONTGOMERY: Back on the record.	8	Q Is it your understanding that is an
IDEOGRAPHER: Recording.	9	incorrect description of the class trial?
ONTGOMERY: At this time, I would like	10	A Oh, yes.
court reporter to mark what will be	11	Q And would it be fair to say in your
	12	opinion that's a false
previously been marked as Exhibit 4, and	13	A It's a
previously been marked as Exhibit 4, and e to thank defense counsel for	14	Q I'm sorry?
e to thank defense counsel for	15	A It's a correct description of the
e to thank defense counsel for y sharing their copies.		·
e to thank defense counsel for y sharing their copies. //ITNESS: Thank you.	16	reported of the report. It's incorrect
e to thank defense counsel for y sharing their copies. //ITNESS: Thank you. ONTGOMERY: For the record, Exhibit 4		description of what went on.
e to thank defense counsel for y sharing their copies. /ITNESS: Thank you. ONTGOMERY: For the record, Exhibit 4 viral published in the September 13th,		Q Would it be fair to say that that's
e to thank defense counsel for y sharing their copies. //TNESS: Thank you. ONTGOMERY: For the record, Exhibit 4 orial published in the September 13th, e of JAMA entitled, "COX-2-Selective		that statement that description of the class
e to thank defense counsel for y sharing their copies. //TNESS: Thank you. ONTGOMERY: For the record, Exhibit 4 orial published in the September 13th, e of JAMA entitled, "COX-2-Selective lew and Improved?"		trial that I just read into the record was false?
e to thank defense counsel for y sharing their copies. //ITNESS: Thank you. ONTGOMERY: For the record, Exhibit 4 orial published in the September 13th, e of JAMA entitled, "COX-2-Selective lew and Improved?"		A Yes.
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e to y sl	published in the September 13th, JAMA entitled, "COX-2-Selective and Improved?"	published in the September 13th, I JAMA entitled, "COX-2-Selective 18 and Improved?" 19 ITGOMERY: 20 our understanding sitting here 21

Pharmacia None Page 61 - 64

	65			67
1	(Deposition Exhibit No. 47	1	in that quote?	
2	was marked for ID)	2	A Yeah.	
3	BY MR. MONTGOMERY:	3	Q All right, turning	
4	Q Once again, you can read as much as	4	A However	
5	you want. I'm only going to ask you about the	5	Q I'm sorry, go ahead.	
6	quote from you at the bottom of the first page	6	A No.	
7	that goes on to the top of the second page.	7	Q All right. Turning to the second page	
8	For the record, Exhibit 47 is an	8	where you say well, starting on the first	
9	article from Business Week dated June 24th, 2002	9	page, "'They had contradictory results when they	
10	with a headline "The Credibility Gap in Drug	10	sent us this paper, and they should have revealed	
11	Research."	11	them to us'"	
12	A Yes.	12	A Um-hum.	
13	Q All right, I'd like to read part of	13	Q Why did you believe that they should	
14	that into the record starting on the bottom of	14	have revealed to you the contradictory results?	
15	the first page. It says, "The studies authors,	15	A Well, for all the reasons that we've	
16	including Pharmacia 'were not open with us" I	16	discussed. I'm a the only virtue of getting	
17	got to restart that. Strike what I just said.	17	older is that you become a patient or if you	
18	I'm going to read part of the article	18	bounce off a lot of cliffs, as I've done, and	
19	into the record. It says, "The study's authors,	19	that gives you a different view, and you rather	
20	including Pharmacia, 'were not open with us,' he	20	value the idea that the doctor's prescribing hand	
21	says. 'They signed letters saying the studies	21	is guided by fact rather than fiction.	
22	had all the relevant stuff, but 'they had	22	Q And in this case, are you	
23	contradictory results when they sent us this	23	characterizing the JAMA article as fiction?	
24	paper, and they should have revealed them to	24	A No, I was saying I don't think it is	
	66			68
1	us." "I'm sorry, "'And they didn't." Do you	1	fiction. I think it's partial truth.	
	40			
2	see that?	2	Q All right, at this time, I'd like to	
3	A Yes.	3	Q All right, at this time, I'd like to ask the witness to look at what's previously been	
3	A Yes. Q Is the quote from you contained in	3 4	Q All right, at this time, I'd like to ask the witness to look at what's previously been marked as Exhibit 36.	
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Pharmacia None Page 65 - 68

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1	69 Financial Disclosure, Copyright Transfer, and	1	71 a disclosure such as Exhibit 36 or something
2	Acknowledgment" as of the end of August 2001.	2	substantially similar?
3		3	A I have no idea, but I I don't know.
4	So just before this paper came in,	4	
	which is what you're talking about, or before it	5	•
5	was published, though I don't know whether it		2000, were the authors of articles published in
6	was whether it was the same, earlier that	6	JAMA required to sign disclosures similar to
7	year.	7	Exhibit 36?
8	Q All right, actually	8	A Yes. I wasn't being cute. I've seen
9	A Because this is a developing document.	9	all authorsh one person sign all the
10	I'm just being cautious here.	10	signatures. I've seen the editorial system
11	Q Sure. I'd like to point out the date	11	break down. That's my understanding.
12	is actually at the lower right-hand corner is	12	Q Do you believe that as of 2000
13	actually after the JAMA article was published.	13	well, scratch that question.
14	A Oh, I'm sorry. January 2001, of	14	Is it correct to say that, as you
15	course.	15	testified before, you have some understanding of
16	Q Yes.	16	what clinicians who read JAMA expect of the
17	A I'm sorry.	17	articles that are published in it?
18	Q That's okay. All right, there's	18	MR. HALPER: Objection to form.
19	different sections to this document I'd like to	19	THE WITNESS: Yeah.
20	talk about. The first section entitled,	20	BY MR. MONTGOMERY:
21	"Authorship Responsibility, Criteria, and	21	Q All right, with regard to authorship,
22	Contributions", do you see that?	22	do you believe that the clinicians who read JAMA
23	A Yes.	23	in general have an understanding that everyone
24	Q Do you have an understanding of what	24	listed as an author in an article published in
	70		72
1	that the purpose of that section is?	1	JAMA meets more or less the criteria set forth in
2	A I should have. They're there	2	Exhibit 36?
3	before because of me.		
		3	MR. HALPER: Objection, calls for
4	Q All right, what is the purpose of that	3 4	MR. HALPER: Objection, calls for speculation.
4 5	Q All right, what is the purpose of that section?		
		4	speculation.
5	section?	4 5	speculation. THE WITNESS: I just don't know. I would
5 6	section? A Not entirely because of me, but the	4 5 6	speculation. THE WITNESS: I just don't know. I would hope so.
5 6 7	section? A Not entirely because of me, but the idea is to have people stand up behind what they	4 5 6 7	speculation. THE WITNESS: I just don't know. I would hope so. MR. MONTGOMERY: I'd like to ask the court
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Pharmacia None Page 69 - 72

1	73 A Yes.	1	O And why is it unethical in your
2			Q And why is it unethical in your
	Q Does that appear to be an accurate	2	opinion?
3	quote?	3	A Well, because that person or these
4	A Very much so.	4	those people who are responsible aren't there
5	Q And do you still agree with it?	5	openly being responsible to the reader.
6	A Very much so.	6	And believe me, problems arise later
7	Q When you said "the authors" when	7	often. And I'm not talking just misconduct,
8	you refer to authors being responsible for	8	though that's one of them, but just questions
9	everything in the article, did you mean as you	9	about the science.
10	said before, willing to take the blame if it's	10	Q Have you published any articles
11	found to be defective?	11	concerning the ethics of authorship in scientific
12	A Yes.	12	articles?
13	Q Did you	13	A Yes.
14	A It	14	Q Approximately how many?
15	Q I'm sorry, I didn't mean to interrupt	15	A A dozen.
16	you?	16	Q And where are
17	A It's apparent to me and to editors	17	A But
18	more and more that a disconnect seems to happen	18	Q I'm sorry.
19	that's as I've told you.	19	A some of them have been
20	I invited a Josh Lederberg, who got	20	investigating what people do and things like
21	the Nobel Prize for molecular biology, big	21	that.
22	discoveries, and I've asked him what he thought,	22	Q And if somebody
23	and I got him to say I'm trying to get the	23	A I suppose. I'm guessing. I don't
24	words right, but they went like this:	24	know.
1	74		7
1	"The manuscript submitted for	1	Q I understand. I'm just looking for
2	"The manuscript submitted for publication is a testament under oath. That's	1 2	Q I understand. I'm just looking for your best estimate.
			-
2	publication is a testament under oath. That's	2	your best estimate.
2	publication is a testament under oath. That's how seriously a scientist should take what they	2	your best estimate. A Yes.
2 3 4	publication is a testament under oath. That's how seriously a scientist should take what they write. It's their only product. It's what they	2 3 4	your best estimate. A Yes. Q Have some of those articles been
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2 3 4 5 6	publication is a testament under oath. That's how seriously a scientist should take what they write. It's their only product. It's what they make their fame on, fortune, everything else, is their their scientific article. It better be	2 3 4 5 6	your best estimate. A Yes. Q Have some of those articles been printed in peer-reviewed journals? A Yes.
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Pharmacia None Page 73 - 76

	77			79
1	or can we just keep moving forward?	1	a different exhibit, and we'll try to fix it. In	
2	MR. NELSON: I'm okay as long as I can keep	2	the meantime, why don't you give that back to the	
3	standing up.	3	court reporter, and she'll we'll find a copy	
4	MR. MONTGOMERY: It's your building.	4	that's got the right all the pages.	
5	MR. NELSON: Yeah.	5	THE WITNESS: Thank God for that. Is this	
6	THE WITNESS: Well, as long as the building	6	(indicating) still on?	
7	keeps standing up.	7	MR. MONTGOMERY: Yes. All right	
8	THE VIDEOGRAPHER: The tape will be over in	8	THE WITNESS: Well, I guess I'm speaking to	
9	thirteen minutes if you want to use that as	9	the right person. I thought I'd gone nuts	
10	MR. MONTGOMERY: Perfect. I would like to	10	looking at that date.	
11	ask the court reporter to mark what will be	11	MR. MONTGOMERY: I apologize.	
12	Exhibit 49.	12	THE WITNESS: As you saw, I was busy all	
13	(Deposition Exhibit No. 49	13	right, continue.	
14	was marked for ID)	14	MR. MONTGOMERY: All right, I'd like to ask	
15	BY MR. MONTGOMERY:	15	the court reporter to mark what will be	
16	Q Have you seen Exhibit 49 before?	16	Exhibit 50.	
17	A Yes, six years ago.	17	(Deposition Exhibit No. 50	
18	Q Okay, is it a letter to you from a	18	was marked for ID)	
19	Jennifer I'm going to have to spell this. I	19	MR. MONTGOMERY: All right, for the record,	
20	have no idea how to say it.	20	Exhibit 50 is a Business Week article dated June	
21	A Rocovec (phonetic).	21	28th, 2004 entitled "When Medicine and Money	
22		22	Don't Mix".	
23 24	did this letter also attach a manuscript or a Letter to the Editor for JAMA?	23 24	BY MR. MONTGOMERY: Q I'm just going to ask you about your	
	78			80
1	78 A Yeah.	1	quote in the middle of the second page.	80
		1 2	quote in the middle of the second page. A (Witness reviewing document).	80
2	A Yeah.			8
2	A Yeah. Q Do you know why this was sent to you	2	A (Witness reviewing document).	8
2 3 4	A Yeah. Q Do you know why this was sent to you in particular?	2	A (Witness reviewing document). Q All right, I'm going to read into the	8
2 3 4 5	A Yeah. Q Do you know why this was sent to you in particular? A (Shaking head).	2 3 4	A (Witness reviewing document). Q All right, I'm going to read into the record an excerpt, which is not all a quote from	8
2 3 4 5 6	A Yeah. Q Do you know why this was sent to you in particular? A (Shaking head). Q Did you play any part in reviewing it?	2 3 4 5	A (Witness reviewing document). Q All right, I'm going to read into the record an excerpt, which is not all a quote from Dr. Rennie. It says, "It's impossible to know	86
2 3 4 5 6 7	A Yeah. Q Do you know why this was sent to you in particular? A (Shaking head). Q Did you play any part in reviewing it? A No. I have no idea. I'm embarrassed	2 3 4 5 6	A (Witness reviewing document). Q All right, I'm going to read into the record an excerpt, which is not all a quote from Dr. Rennie. It says, "It's impossible to know how prevalent ghost writing is. But Dr. Drummond	86
2 3 4 5 6 7	A Yeah. Q Do you know why this was sent to you in particular? A (Shaking head). Q Did you play any part in reviewing it? A No. I have no idea. I'm embarrassed that I'd forgotten about it. I handed it on to	2 3 4 5 6 7	A (Witness reviewing document). Q All right, I'm going to read into the record an excerpt, which is not all a quote from Dr. Rennie. It says, "It's impossible to know how prevalent ghost writing is. But Dr. Drummond Rennie, Professor of Medicine at the University	8
2 3 4 5 6 7 8	A Yeah. Q Do you know why this was sent to you in particular? A (Shaking head). Q Did you play any part in reviewing it? A No. I have no idea. I'm embarrassed that I'd forgotten about it. I handed it on to Letters, as I recollect. That's it. And it	2 3 4 5 6 7 8	A (Witness reviewing document). Q All right, I'm going to read into the record an excerpt, which is not all a quote from Dr. Rennie. It says, "It's impossible to know how prevalent ghost writing is. But Dr. Drummond Rennie, Professor of Medicine at the University of California San Francisco and Deputy Editor of	8
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Pharmacia None Page 77 - 80

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	81		A (ARthur and Arian)	83
1	quickly and get more attention simply because her	1	A (Witness so doing).	
2	name is on it even if she did nothing and	2	Q On the first page, I'm actually just	
3	sometimes without her knowledge, and it's been	3	going to ask you about something in the	
4	the downfall of quite a lot of senior people	4	"Guidelines For Letters" in the lower right-hand	
5	who've had fraudulent articles published in that	5	corner.	
6	way with their names attached.	6	A Yes.	
7	Now, ghost writing is the habit,	7	Q All right, in the middle of that	
8	typically, of paying a contract research	8	paragraph, it says, "A signed statement for	
9	organization, the people in it, to write papers	9	authorship criteria and responsibility, financial	
10	and then hand them on to the people whose names	10	disclosure, copyright transfer, and	
11	are on the paper and without the name of the	11	acknowledgment is required for publication." Do	
12	person who actually wrote the thing.	12	you see that?	
13	There'ss one in this connection with	13	A Yes.	
14	the Advantage study published in the Annals of	14	Q Does that mean that for a Letter to	
15	Internal Medicine. Dr. Liise this is on	15	the Editor to be published, the authors have to	
16	Vioxx when interviewed by the New York Times	16	sign a form substantially similar to what was	
17	said something along the lines, "Merck is the	17	marked as Exhibit 36?	
18	first author and the principal investigator." He	18	A Yes, I believe so.	
19	was the study was thought up, designed,	19	Q And is it for the same reasons?	
20	conducted, analyzed, the data collected,	20	A Yes.	
21	analyzed, written up, and the paper in full form	21	Q All right, would you turn to the	
22	sent to me to add my name to it. I didn't know	22	second page of Exhibit 31?	
23	the patients who died, et cetera. That's ghost	23	A (Witness so doing).	
24	writing because the person who wrote that paper	24	Q All right, at the top of the second	
1	nowhere appears on the list of authors, and	1	column there, there's a sentence beginning,	
2			column there, there s a sentence beginning,	
2	occasionally it comes out in that way.	2	"Fourth and most important". Do you see that?	
3				
	occasionally it comes out in that way.	2	"Fourth and most important". Do you see that?	
3	occasionally it comes out in that way. Q And why do you believe that's	2	"Fourth and most important". Do you see that? A Yes.	
3 4	occasionally it comes out in that way. Q And why do you believe that's deceptive?	2 3 4	"Fourth and most important". Do you see that? A Yes. Q I would like to read that into the	
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Pharmacia None Page 81 - 84

	lawa ada taman	85		8
1	laymen's terms?	1	could make an informed judgment about that, and	
2	MR. HALPER: Well, I just want to clarify.	2	I'm not going to. Is that cooperative?	
3	Are you asking for Dr. Rennie's understanding of	3	BY MR. MONTGOMERY:	
4	informative censoring or what he thinks the	4	Q Yes. I just want to make clear I'm	
5	authors meant when they used that term here?	5	not asking you for your opinion of the theory	
6	MR. MONTGOMERY: Sure, his understanding.	6	itself, the informative censoring	
7	MR. HALPER: Okay.	7	A Yes.	
8	THE WITNESS: You know, I think I'm going	8	Q whether you think it's valid or not	
9	to get into trouble if I start giving giving	9	valid, just whether you generally understand	
10	definitions of statistical concepts, and as I've	10	what what it is.	
11	said before, I think it's a bad plan that I get	11	A Well, I'm going to say no because I've	
12	into that.	12	seen it in different guises. So I'm going to say	
13	BY MR. MONTGOMERY:	13	no.	
14	Q All right, and just in the most	14	Q So the specifically the portion of	
15	general laymen's terms, would it be fair to say	15	the letter that I just read into the record, you	
16	that the informative censoring theory contends	16	don't have a general understanding of what that	
17	that the class study became more biased as time	17	theory is?	
18	went on due to the dropout rates? Would you feel	18	MR. HALPER: That's a different	
19	comfortable with that?	19	THE WITNESS: That's different.	
20	MR. HALPER: Object to form.	20	MR. HALPER: You're asking now Dr. Rennie	
21	THE WITNESS: It might, but I don't think	21	to talk about what the authors meant.	
22	that's the point is what I'm saying.	22	MR. MONTGOMERY: No, no, I'm asking him	
23	BY MR. MONTGOMERY:	23	MR. HALPER: Oh.	
24	Q Sure. I'm just trying to talk about	24	MR. MONTGOMERY: (Continuing) if he has	
1	the theory as it's posited by someone else. Is	1	an understanding of informative censoring as it's	
2	that enough or is that still not enough?	2	described there.	
3	A I'm not going to say.	3	MR. HALPER: Well, I'll object, and I think	
4	Q Okay. All right, the letter that	4	it calls for speculation.	
5	that's contained in	5	MR. NELSON: Well, I mean I think in	
6	MR. NELSON: Let me go	6	fairness	
7	MR. MONTGOMERY: Sure.	7	MR. MONTGOMERY: Sure.	
8	MR. NELSON: Can I just discuss this with	8	MR. NELSON: The objection is well taken. I	
9	the witness? I mean there's a problem when a	9	think that the earlier objection was, Do you mean	
10	witness says, I'm not going to say. But it may	10	A or do you mean B? And you said, I mean B, and	
11	be we can clarify it, so let's just	11	now I think you're asking A again. And that's	
12	MR. MONTGOMERY: Sure. Let's go off the	12	fine, it's your prerogative	
13	record.	13	MR. MONTGOMERY: Sure.	
14	MR. NELSON: Let's go outside for a second.	14	MR. NELSON: (Continuing) but I just	
15	(Recess taken.)	15	think you should make it clear that this is a new	
16	THE VIDEOGRAPHER: Recording.	16	question you're asking.	
17	MR. NELSON: All right, I've spoken with	17	MR. MONTGOMERY: Okay, I don't think it is,	
18	Dr. Rennie. He would like to clarify his last	18	but what I'm trying to say is there's a theory	
	comment. So if you would, please?	19	described here, we called it informative	
19	· · · · · · · · · · · · · · · · · · ·	1 *		
19 20	THE WITNESS: I don't want you to think I'm	20	censumy, and thi asking it he has an	
20	THE WITNESS: I don't want you to think I'm uncooperative. That's far from the case. I want		censoring, and I'm asking if he has an understanding, a general understanding of what	
20 21	uncooperative. That's far from the case. I want	21	understanding, a general understanding of what	
20				
20 21 22	uncooperative. That's far from the case. I want	21 22	understanding, a general understanding of what	

Pharmacia None Page 85 - 88

4	89		and that?	9
1	BY MR. MONTGOMERY:	1	see that?	
2	Q Okay.	3	A Yes.	
3 4	A I think that's really I don't know	4	Q And were to your knowledge, were	
5	what it is you want. Q Okay.	5	Mr. Verburg or Dr. Verburg and Friedman listed as authors in the Letter to the Editor that was	
6	A I'm not want. What okay.	6	eventually published?	
7	Q All right, let's let's just move	7	A No. It would be Silverstein, Simon,	
8	on. Actually, before we move on, the letter that	8	Faich.	
9	we were just discussing and the quotation is from	10	Q Okay, and I'd like you to look at	
10 11	a letter by Fred Silverstein, Lee Simon and Gerald Faich; is that correct?	11	what's previously been marked Exhibit 39. A Thank you.	
		12	•	
12	A Yes.		Q For the record, Exhibit 39 is an	
13	Q And did you have any role in reviewing	13	e-mail string starting with an e-mail from Goran	
14	that letter prior to publication?	14	Ando, A-N-D-O, first name G-O-R-A-N, to Phillip	
15	A No.	15	Needleman and several others dated August 13th,	
16	Q All right, I'd like to ask the witness	16	2001.	
17 18	to look at what has previously been marked as	17 18	A Yes. Q The subject heading is "JAMA Letters	
	Exhibit 24. And watch out, I actually ran out of			
19	staples in my room last night, so these are	19	to the Editor." If you would, I would like you	
20	loose.	20	to look at the first paragraph on the first page.	
21	For the record, Exhibit 24 is an	21	A (Witness so doing).	
22	e-mail string starting with an e-mail from Joy	22	Q The third sentence reads, "Once we	
23 24	Dicker to Mona Wahba dated August 23rd, 2001.	23	redraft the letter we would send it to the	
24	I'm only going to be asking you about	24	authors and get their buy-in with the intent of	
	90			9:
1	Item 4 on the second page. Have you had a chance	1	making the 10 day timeline imposed by JAMA." Do	
1	Item 4 on the second page. Have you had a chance to look at Exhibit 24?	1 2	making the 10 day timeline imposed by JAMA." Do you see that?	
2	to look at Exhibit 24?	2	you see that?	
2	to look at Exhibit 24? A Yes.	2	you see that? A Um-hum.	
2 3 4	to look at Exhibit 24? A Yes. Q Okay.	2 3 4	you see that? A Um-hum. Q If that statement and the statement I	
2 3 4 5	to look at Exhibit 24? A Yes. Q Okay. A Well, part of it. I mean	2 3 4 5	you see that? A Um-hum. Q If that statement and the statement I just read to you out of Exhibit 24 are correct,	
2 3 4 5 6	to look at Exhibit 24? A Yes. Q Okay. A Well, part of it. I mean Q Do you see that it concerns a	2 3 4 5 6	you see that? A Um-hum. Q If that statement and the statement I just read to you out of Exhibit 24 are correct, does it appear to you that that letter was the	
2 3 4 5 6 7	to look at Exhibit 24? A Yes. Q Okay. A Well, part of it. I mean Q Do you see that it concerns a meeting	2 3 4 5 6 7	you see that? A Um-hum. Q If that statement and the statement I just read to you out of Exhibit 24 are correct, does it appear to you that that letter was the letter that was published in JAMA was ghost	
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Pharmacia None Page 89 - 92

	93	١.		9:
1	Q I'd like to ask the witness to look at	1	A Yes.	
2	what's previously been marked as Exhibit 27.	2	Q Do you know any of those individuals?	
3	A (Witness so doing).	3	A The answer is I don't think so. I	
4	Q Now, I'm only going to ask you about	4	deal with thousands of people a year, you know.	
5	the second-to-last page of this document, but	5	I mean	
6	you're free to look through it if you wish.	6	Q I'm just looking for your your best	
7	A Yes.	7	recollections.	
8	Q For the record, Exhibit 27 is an	8	A Yes.	
9	e-mail with attachments. The email is from	9	Q Okay, do you see almost in the middle	
10	Carolyn Wilson to George Geis and several other	10	of the page, it says, "Weekly Meeting"?	
11	individuals dated March 20th, 2000.	11	A Yes.	
12	Just let me know when you get to the	12	Q All right, and then underneath there,	
13	second-to-last page.	13	there's a list of bullet points?	
14	A Well, I'm on the second-to-last	14	A Yes.	
15	page	15	Q I'd like to direct you to one of the	
16	Q So it should in the lower	16	bullet points toward the middle of the bottom, it	
17	right-hand corner	17	says, "Trial design/Issues"?	
18	A But but hang on a moment.	18	A Yes, yes.	
19	Q Okay.	19	Q Then the third bullet underneath that	
20	A Clearly I haven't had time to dissect	20	says, "Worse case: we have to attack the trial	
21	all this stuff (indicating).	21	design if we do not see the results we want."	
22	Q Sure.	22	Do you see that?	
23	A And I don't know how many pages there	23	A Yes.	
24	are, but it's quite a little lot, it looks. So	24	Q Have you heard that phrase before	
		1		
	94			
1	94 I'm not quite sure what you mean, but anyhow	1	"attack a trial design"?	
1 2		1 2	"attack a trial design"? A That specific phrase, no.	
	I'm not quite sure what you mean, but anyhow			
2	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll	2	A That specific phrase, no.	
3	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and	2	A That specific phrase, no. Q In the context of a clinical trial, do	
2 3 4	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look	2 3 4	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means?	
2 3 4 5 6	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look	2 3 4 5	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to	
2 3 4 5 6	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it.	2 3 4 5 6	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an	
2 3 4 5 6 7	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it. A Yes. Q Does that seem fair?	2 3 4 5 6 7	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an answer, I assume, but that's an assumption. What	
2 3 4 5 6 7 8	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it. A Yes. Q Does that seem fair? A (Gesturing).	2 3 4 5 6 7 8 9	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an answer, I assume, but that's an assumption. What else can it mean? Q All right, I'd like you to take a look	
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2 3 4 5 6 7 8 9 10 11	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it. A Yes. Q Does that seem fair? A (Gesturing). Q Okay. Well, starting the second-to-last page, do you see the top of the page, it says, "Updated: CLASS Steering	2 3 4 5 6 7 8 9 10 11 12	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an answer, I assume, but that's an assumption. What else can it mean? Q All right, I'd like you to take a look at the Letter to the Editor again A Yes. Q Exhibit 31. The second page, the	
2 3 4 5 6 7 8 9 10 11 12	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it. A Yes. Q Does that seem fair? A (Gesturing). Q Okay. Well, starting the second-to-last page, do you see the top of the page, it says, "Updated: CLASS Steering Committee"?	2 3 4 5 6 7 8 9 10 11 12 13	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an answer, I assume, but that's an assumption. What else can it mean? Q All right, I'd like you to take a look at the Letter to the Editor again A Yes. Q Exhibit 31. The second page, the Bates number ending 958, Bates ending 958, the	
2 3 4 5 6 7 8 9 110 111 112 113	I'm not quite sure what you mean, but anyhow Q Okay, what I propose is that I'll ask start asking you questions about this, and to the extent you think maybe you'd like to look at the rest of it, then you can go back and look at it. A Yes. Q Does that seem fair? A (Gesturing). Q Okay. Well, starting the second-to-last page, do you see the top of the page, it says, "Updated: CLASS Steering Committee"? A Yeah.	2 3 4 5 6 7 8 9 10 11 12 13	A That specific phrase, no. Q In the context of a clinical trial, do you have an understanding of what that means? A We have to criticize it. We have to say it's meaningless, it never will produce an answer, I assume, but that's an assumption. What else can it mean? Q All right, I'd like you to take a look at the Letter to the Editor again A Yes. Q Exhibit 31. The second page, the Bates number ending 958, Bates ending 958, the same page we were looking at before	
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Pharmacia None Page 93 - 96

1	97 A (Witness reviewing document). So now	1	let's disregard Exhibit 27 then, the class	!
2	we're going back to the letters?	2	steering document that we looked at, but we	
3	Q Right.	3	did talk about just the phrase "attacking the	
4	A Yes.	4	trial design" and what you generally understand	
5	Q All right, the second page of	5	that to mean.	
6	Exhibit 31	6	A Yeah.	
7	A You had me. I was slightly faked out	7	Q So I'm not asking with you know,	
8	because they were talking VIGOR, and I'm	8	anything with regard to the other document.	
9	obviously going to be looking at different things	9	A Yes.	
10	from you.	10	Q But just looking at the Letter to the	
11	Q Right. Okay, so on the second page of	11	Editor and the informative censoring theory in	
12	Exhibit 31	12	that letter	
13	A Yes.	13	A Yeah.	
14	Q Do you remember the language I read	14	Q would you understand that to be	
15	into the record earlier that we agreed to call	15	attacking the trial design?	
16	informative censoring?	16	MR. HALPER: Objection to form.	
17	A Yes.	17	THE WITNESS: Well, I said it's critiquing.	
18	Q Okay, I'm not going to read it again,	18	And, here, the people the phrase that you used	
19	but take a look at it again.	19	or the bits that you used are from the people who	
20	My question to you is whether or not	20	did the trial, Silverstein and others, but it's	
21	that theory constitutes attacking the trial	21	basically anything any criticism of the	
22	design?	22	design, you could call an attack on the design	
23	MR. HALPER: Objection, calls for	23	and could say, Well, that's a criticism we're	
24	speculation.	24	trying to deal with and so on.	
			.,,,,,	
	98			10
1	THE WITNESS: I need help here.	1	MR. MONTGOMERY: I would like to ask the	
2	BY MR. MONTGOMERY:	2	THE WITNESS: That	
3	Q Sure.	3	MR. MONTGOMERY: I'm sorry, go ahead.	
4	A This is talking about the class	4	THE WITNESS: Okay. It gives the wrong	
5	steering group attacking the steering the	5	impression of what I feel about this.	
6	design of the VIGOR study; is that correct?	6	BY MR. MONTGOMERY:	
7	Q I can't tell you that. You have to	7	Q How is that?	
8	interpret the document to the best of your	8	A Well, if you don't report it at all,	
9	ability	9	how can anyone attack what seems not to have been	
10	A Soldo.	10	done, least of all the authors.	
11	Q how you understand it.	11	Q And I do want you to make sure	
12	A However, it comes under the Trial	12	whenever I'm asking you a question that you think	
13	design/Issues, "Do not want Merck to start with a	13	that	
14	story." And the reason I'm asking this is that	14	A Yeah.	
15	it seems to be a different design that's being	15	Q your answer fully reflects	
16	attacked by a different group.	16	A Yeah.	
17	Q Right.	17	Q your view. So, all right, I'd like	
	A And so that you're the exact way	18	to ask the court reporter to mark what will be	
		19	Exhibit 50. No, what is already Exhibit 37.	
18	that you've phrased the question sounded a little	ı	MR. NELSON: Excuse me, is this document	
18 19	that you've phrased the question sounded a little odd to me.	20		
18 19 20	odd to me.	20 21		
18 19 20 21	odd to me. Q Okay, I think I can simplify it for	21	you just gave us 37 or is it 50?	
18 19 20 21 22	odd to me. Q Okay, I think I can simplify it for you.	21 22	you just gave us 37 or is it 50? MR. MONTGOMERY: It's 37.	
18 19 20 21	odd to me. Q Okay, I think I can simplify it for	21	you just gave us 37 or is it 50?	

Pharmacia None Page 97 - 100

			•	
	101			103
1	BY MR. MONTGOMERY:	1	THE WITNESS: Obviously, you can (witness	
2	Q As always, you can read as much of it	2	reviewing document).	
3	as you want. I'm going to only ask you about the	3	MR. MONTGOMERY: For the record, Exhibit 38	
4	second full paragraph in the first page.	4	is an e-mail from Nancy Tam, T-A-M, to Kenneth	
5	For the record, Exhibit 37 is an	5	Verburg dated April 4th, 2000 with an attachment.	
6	e-mail from Mona Wahba to Leland Loose and Ethan	6	BU MR. MONTGOMERY:	
7	Weiner dated February 16th, 2000.	7	Q All right, does the attachment to the	
8	A (Reviewing document).	8	e-mail in Exhibit 38 appear to be sort of a draft	
9	Q All right, on the first page of	9	manuscript of the class study?	
10	Exhibit 37, the second full paragraph that starts	10	A Yeah.	
11	"Not for awhile yet," the second-to-last sentence	11	Q And is it of the fill in the blanks	
12	reads, "Believe it or not a draft manuscript has	12	variety described in Exhibit 37?	
13	already been written with a sort of a fill in the	13	MR. HALPER: Objection to form.	
14	blanks depending upon what actually happens."	14	THE WITNESS: Yes, along those lines.	
15	Do you see that?	15	BY MR. MONTGOMERY:	
16	A Yes.	16	Q All right, would you look at what's	
17	Q Are you familiar with the practice of	17	the thirteenth page of the manuscript, Bates	
18	drafting a manuscript before the results have	18	number ending 910? Do you see the section	
19	been received?	19	entitled "Results" on that page?	
20	A It doesn't work like that. Yes and	20	A Yes.	
21	no. It doesn't work like that. I am very	21	Q And do you see all the Xs with	
22	familiar with the idea that when you when you	22	percentages after them?	
23	write a grant request, a very convenient thing to	23	A Yes.	
24	do is to rough out tables and rough out possible	24	Q And is the is that sort of draft	
	102		manuacint usual in usus auracinasa?	104
1	results because you have by you have to do	1	manuscript usual in your experience?	
2	what are called power calculations, that is, how	2	A In my ex I don't know because I	
3	much difference might you expect that Celebrex	3	I would say this is way more than what I was	
4	might be compared with Naprosyn, and if that's	4	talking about.	
5	the case, how many patients will you need because	5	Q And you don't know whether that's	
6	this can mean hundreds of millions of dollars to	6	unusual or not?	
7	your company and to the patients, much more	7	A I don't know.	
8	importantly.	8	Q Okay, would you please turn to the	
9	So you have to do a lot of stuff right	9	third page of Exhibit 38? Did you want to expand	
10	there beforehand, and writing a paper in rough	10	on your	
11	draft right at the start is a smart thing to do.	11	A I don't know because we see the	
12	I don't think it's talking about that, but still	12	finished result. We never see this.	
13	he might be. It's a smart thing to do because it	13	Q So it's the please turn to the	
14	tells you it reminds you of all those things	14	third page of Exhibit 38. It's the second page	
15	you've got to have and have got to be able to	15	of the manuscript.	
16	justify later.	16	A (Witness so doing).	
17	Writing the full thing is a little	17	Q All right, do you see the section	
18	odd, and, of course but if it was done by Fred	18	entitled "Methods" on that page?	
19	Silverstein and gang, I'd say fair enough, you	19	A (Nodding).	
20	had a special look. I don't know who had the	20	Q All right, I'm going to read the first	
21	first look here.	21	sentence into the record. It says, "Patients	
22	MR. MONTGOMERY: I'd like to ask the court	22	with OA or RA were enrolled into one of two	
23	reporter to well show the witness what's	23	studies simultaneously conducted for a period of	
24	previously been marked as Exhibit 38.	24	up to 65 weeks." Do you see that?	

Pharmacia None Page 101 - 104

	105			107
1	A Yes.	1	Q Had that language been included in the	
2	Q And had that language been included in	2	JAMA article, would you have understood the class	
3	the JAMA article, would you have understood that	3	study to have lasted longer than six months?	
4	the class study lasted longer than six months?	4	A Yes.	
5	MR. HALPER: Objection, no foundation.	5	Q I'd like to ask the witness to look at	
6	THE WITNESS: Yeah. Well, yes.	6	what's previously been marked as Exhibit 21.	
7	BY MR. MONTGOMERY:	7	A (Witness so doing).	
8	Q Would you	8	Q Have you ever seen Exhibit 21 before?	
9	A I was forgive me, I was confused by	9	A No.	
10	the objection.	10	Q Have you seen final reports of other	
11	Q Sure. You can you can just answer	11	clinical studies before?	
12	my question. You don't have to	12	A Yes.	
13	MR. NELSON: Dr. Rennie, unless I tell you	13	Q Does this look like it's the final	
14	that you shouldn't answer, then you should answer	14	report of the class study?	
	over the objection, you know. But always give	15		
15			A I suppose.	
16	the guy time to object, time to think about your	16	Q All right, can you tell me the	
17	answer, but then if you with formulate an answer,	17	document date as it's reported on the first page?	
18	do so.	18	A The 25th of May 2000.	
19	THE WITNESS: My problem wasn't that. My	19	Q And is that prior to when the JAMA	
20	problem was whether 65 weeks was longer than six	20	article was published?	
21	months, and I thought that that was self-evident,	21	A Right. It's a month after the	
22	but I could see there was something else going on	22	lockdown date, I think, of all the data, so	
23	that I didn't appreciate. And I wasn't being	23	Q But it is before the publication of	
24	rude. I was that's what stopped me suddenly.	24	the JAMA article; is that correct?	
	106			108
1	106 BY MR. MONTGOMERY:	1	A Right.	108
1 2	BY MR. MONTGOMERY:	1 2	A Right. Q All right, would you take a look at	108
2	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can	2	Q All right, would you take a look at	108
2	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to	2	Q All right, would you take a look at the third page, please, Bates number ending 925?	108
2 3 4	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to the extent you can.	2 3 4	Q All right, would you take a look at the third page, please, Bates number ending 925? A Yes.	108
2 3 4 5	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to the extent you can. A Yes.	2 3 4 5	Q All right, would you take a look at the third page, please, Bates number ending 925? A Yes. Q All right, do you see on that page	108
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2 3 4 5 6 7	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to the extent you can. A Yes. Q Had the JAMA article as it was published included the language that I just read	2 3 4 5 6 7	Q All right, would you take a look at the third page, please, Bates number ending 925? A Yes. Q All right, do you see on that page there's a section entitled "Methodology" on the second half of the page?	108
2 3 4 5 6 7 8	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to the extent you can. A Yes. Q Had the JAMA article as it was published included the language that I just read into the record, would you have understood that	2 3 4 5 6 7 8	Q All right, would you take a look at the third page, please, Bates number ending 925? A Yes. Q All right, do you see on that page there's a section entitled "Methodology" on the second half of the page? A Yes.	108
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. MONTGOMERY: Q Sure. Let me just ask again. He can object again, and then you can answer again to the extent you can. A Yes. Q Had the JAMA article as it was published included the language that I just read into the record, would you have understood that the class study lasted longer than six months? MR. HALPER: Objection, foundation. THE WITNESS: Yes. BY MR. MONTGOMERY: Q Would you turn to the eighth page of the manuscript, Bates number ending 905? A (Witness so doing). Q All right, do you see the section entitled "Outcome Measures" on that page? A Yes. Q All right, the first sentence of that reads, "The primary end point with the incidence of upper GI ulcer complications during the period	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q All right, would you take a look at the third page, please, Bates number ending 925? A Yes. Q All right, do you see on that page there's a section entitled "Methodology" on the second half of the page? A Yes. Q All right, I think it's approximately the third sentence, it begins, "Treatment duration". Do you see that? A Yes. Q I'm going to read it into the record. It says, "Treatment duration lasted for at least 26 weeks, with a maximum potential treatment of 52 or 65 weeks." A Yes. Yes. Q If that language had been included in the JAMA article, would you have understood that the class study lasted longer than six months? MR. HALPER: Objection	108

Pharmacia None Page 105 - 108

	109		<u> </u>	111
1	BY MR. MONTGOMERY:	1	longer, so it became irrelevant. Do you see what	
2	Q Yeah. All right, do you see	2	I'm saying?	
3	underneath that there's a section entitled	3	Q Sure. Let me rephrase the question	
4	"Number of Patients"?	4	then. As you're sitting here today	
5	A Yes.	5	A Yes.	
6	Q All right, the second sentence of that	6	Q reading the language that I just	
7	reads, "A total of 8,059 patients were enrolled,	7	read to you	
8	of whom 5 4,573 completed six months of	8	A Yes.	
9	treatment and 3,409 completed the study." Do	9	Q does that specific language	
10	you see that?	10	communicate that the class study lasted longer	
11	A Yes.	11	than six months?	
12	Q Had that language been included in the	12	A Not necessarily.	
13	JAMA article, would you have understood that the	13	Q Okay. Could you turn to the second	
14	class study lasted longer than six months?	14	page, please?	
15	MR. HALPER: Objection, foundation.	15	A (Witness so doing).	
16	THE WITNESS: Yes.	16	Q Do you see there's a heading "Study	
17	BY MR. MONTGOMERY:	17	Protocol" in the middle of that page?	
18	Q All right, now I'd like you to go back	18	A Yes.	
19	to the JAMA article, which is Exhibit 3.	19	Q All right, I'd like you to look at the	
20	A (Witness so doing).	20	first paragraph there underneath "Study Protocol"	
21	Q All right, I believe you testified	21	at the last sentence. I'm going to read that	
22	before that you read this article when it was	22	into the record.	
23	originally published; is that correct?	23	A Yeah.	
24	A Yes. I haven't read it for six years.	24	Q It says, "After a baseline visit,	
١.	110			112
1	Q Okay. I'd like you to look at	1	follow-up clinics clinic visits took place at	
3	A So nearly six years.	2	weeks 4, 13, and 26 after the initial dose of	
4	Q on the first I'd like you to look at the first page under the section entitled	3 4	medication, and every 13 weeks thereafter." A Hum.	
5	"Participants". Do you see that?	5	Q "All patients were provided an	
6	A Yes.	6	opportunity to complete a minimum of 6 months of	
7	Q The second sentence reads, "A total of	7	treatment." Do you see that?	
8	4573 patients (57%) received treatment for 6	8	A Yeah, I saw it.	
9	months." Do you	9	Q Do you recall how you interpreted that	
10	A Yes.	10	sentence the first time you read the document?	
11	Q see that?	11	A No.	
12	A Yes.	12	Q All right, sitting here today, does	
13	Q When you read that originally, did you	13	that communicate to you that the class study	
14	understand that the class study lasted longer	14	lasted longer than six months?	
15	than six months?	15	A Hang on. (Reviewing document).	
	A I didn't reach an opinion on that.	16	I'm trying to determine when the first doses were	
l in			, , ,	
16 17	· ·	17	given, see, because certainly it looks as though	
17	Q Okay. Based upon everything that you		given, see, because certainly it looks as though it was longer than that there, but every 13	
	· ·	17	given, see, because certainly it looks as though it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I	
17 18	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or	17 18	it was longer than that there, but every 13	
17 18 19	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or not you believed that the class study lasted	17 18 19	it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I	
17 18 19 20	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or not you believed that the class study lasted longer than six months?	17 18 19 20	it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I don't know from this, I certainly can't	
17 18 19 20 21	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or not you believed that the class study lasted longer than six months? A I don't know, and I'll tell you why.	17 18 19 20 21	it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I don't know from this, I certainly can't remember what I thought. What I can see here is	
17 18 19 20 21 22	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or not you believed that the class study lasted longer than six months? A I don't know, and I'll tell you why. Because I was told there was something wrong with	17 18 19 20 21 22	it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I don't know from this, I certainly can't remember what I thought. What I can see here is that it lasted six months.	
17 18 19 20 21 22 23	Q Okay. Based upon everything that you read in the JAMA article, do you know whether or not you believed that the class study lasted longer than six months? A I don't know, and I'll tell you why. Because I was told there was something wrong with this, that's the very first reason that I read	17 18 19 20 21 22 23	it was longer than that there, but every 13 weeks thereafter, it doesn't add up to 26, but I don't know from this, I certainly can't remember what I thought. What I can see here is that it lasted six months. Q All right, do you recall in the final	

Pharmacia None Page 109 - 112

	113			11
1	talked about as a maximum period of 52 or 65	1	there anything in the language that you just read	
2	weeks?	2	from the JAMA article that indicates that the	
3	A Yes.	3	trial lasted between 52 and 65 weeks?	
4	Q Is is that disclosed in the	4	A No.	
5	A I don't see it.	5	Q I'd like to show the witness what's	
6	Q in the quote that I just read to	6	previously been marked as Exhibit 32. You can	
7	you from the	7	always read the whole thing. I'm only going to	
8	A No, I don't see it.	8	ask you about the second page.	
9	Q You have to let me finish my question.	9	A Yes.	
10	I'm sorry, let me	10	Q If you start in the middle of the	
11	A I apologize.	11	first column that says "Secondly" and read	
12	Q That's okay. Starting again, the	12	through the bottom of that column.	
13	final report, Exhibit 21, that we looked at	13	A (Reviewing document). Okay.	
	A Yeah.	14		
14			Q All right, have you ever seen	
15	Q indicated that there was a maximum	15	Exhibit 32 before?	
16	potential treatment period of 52 or 65 weeks; is	16	A Yes.	
17	that right?	17	Q And is it an article from the British	
18	A Yes.	18	Medical Journal dated June 1st, 2002?	
19	Q All right. Now, the excerpt from the	19	A Yes.	
20	JAMA article that I just read to you, did that	20	Q Did you read it at the time of its	
21	disclose that fact?	21	publication?	
22	A Yes.	22	A It's hard to know. I know Peter Juni	
23	MR. HALPER: The document speaks for	23	fairly well, had a drink with him.	
24	itself.	24	Q And have you read it since that you	
	114			1
1	BY MR. MONTGOMERY:	1	can recall?	1
1 2		1 2		1
	BY MR. MONTGOMERY:		can recall?	1
2	BY MR. MONTGOMERY: Q All right, could you turn to the third	2	can recall? A I don't imagine so. It's in my	1
2	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880?	2	can recall? A I don't imagine so. It's in my head	1
2 3 4	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah.	2 3 4	can recall? A I don't imagine so. It's in my head Q Okay.	1
2 3 4 5	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis"	2 3 4 5	can recall? A I don't imagine so. It's in my head Q Okay. A mostly.	1
2 3 4 5	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis" section?	2 3 4 5 6	can recall? A I don't imagine so. It's in my head Q Okay. A mostly. Q All right, would you turn to the	1
2 3 4 5 6 7	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis" section? A Yes.	2 3 4 5 6 7	can recall? A I don't imagine so. It's in my head Q Okay. A mostly. Q All right, would you turn to the second page of Exhibit 32?	1
2 3 4 5 6 7 8	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis" section? A Yes. Q All right, I the second paragraph	2 3 4 5 6 7 8	can recall? A I don't imagine so. It's in my head Q Okay. A mostly. Q All right, would you turn to the second page of Exhibit 32? A Yes.	1
2 3 4 5 6 7 8 9	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis" section? A Yes. Q All right, I the second paragraph there that starts "Homogeneity"	2 3 4 5 6 7 8 9	can recall? A I don't imagine so. It's in my head Q Okay. A mostly. Q All right, would you turn to the second page of Exhibit 32? A Yes. Q The last full paragraph on that on	
2 3 4 5 6 7 8 9 10	BY MR. MONTGOMERY: Q All right, could you turn to the third page of Exhibit 3, Bates number ending 880? A Yeah. Q Do you see the "Statistical Analysis" section? A Yes. Q All right, I the second paragraph there that starts "Homogeneity" A Yes.	2 3 4 5 6 7 8 9	can recall? A I don't imagine so. It's in my head Q Okay. A mostly. Q All right, would you turn to the second page of Exhibit 32? A Yes. Q The last full paragraph on that on the first column that starts "Publishing", do you	
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Pharmacia None Page 113 - 116

	117			
1	the authors of the JAMA article did in this case?	1	can't remember what the policy was, but it's	
2	A Yes.	2	almost certain that I did.	
3	Q All right, above the paragraph	3	Q Why don't you take a minute and read	
4	right above that	4	through the first page at least and see if it	
5	A Yes.	5	refreshes your recollection?	
6	Q it says that paragraph begins	6	A Yeah. Oh, wait a minute, I'm not	
7	with the sentence, "Secondly, the flawed findings	7	allowed to (gesturing).	
8	published in the original article appear to be	8	Q You can mark up his copy.	
9	widely distributed and believed." Do you see	9	MR. NELSON: Yeah, that's true. Go ahead.	
10	that?	10	THE WITNESS: Thank you. (Reviewing	
1	A Yes.	11	document). Yeah, well, I've got the sense of	
2	Q And by "original article", do you take	12	what's new, sort of.	
3	that to mean the JAMA article?	13	BY MR. MONTGOMERY:	
4	A Yes.	14	Q Did you participate in the change of	
5	Q And do you agree with that statement?	15	policy that's articulated in Exhibit 40?	
6	A Yes.	16	A Yes.	
7	Q All right. All right, going back to	17	Q And what role did you have in that	
8	the last full paragraph in that column, in the	18	change of policy?	
9	middle of it, there's a sentence that begins	19	A Well, it's it's been a I've	
0:	"Consequently". Do you see that?	20	drawn attention and helped discuss I've drawn	
1	A Yes.	21	attention to lots of problems that people have	
2	Q I'm going to read that into the	22	had at my own and other journals, and so we've	
23	record. It says, "Consequently, CLASS may still	23	been you know, it's been an internal	
24	be relied on by many physicians without reference	24	discussion. And because I've been working on	
	118			
	to these flaws." Do you see that?	1	this longer than most, a lot longer than most,	
2	to these flaws." Do you see that? A Yes.	2	despite myself, people listen or	
2	to these flaws." Do you see that? A Yes. Q And do you take "these flaws" to mean		despite myself, people listen or Q Can you explain what the change in	
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Pharmacia None Page 117 - 120

		121		1:
1	A Yes, the Cochrane Collaboration,	121	Q You had no responsibility at all for	1.
2	C-O-C-H-R-A-N-E.	2	the publication of the article; isn't that right?	
3	Q And what's the purpose of that group?	3	A Correct.	
4	A The purpose is to examine the	4	Q You'd never heard of the class study	
5	evidence, scientifically the evidence for what	5	prior to publication of the article?	
6	are called interventions, everything from surgery	6	A Correct.	
7	to every form of treatment for whatever. And	7	Q You didn't discuss the class study or	
	·	8	·	
8	this has required recruiting somewhere between twelve and twenty thousand experts in this from	9	the article with any of your colleagues at JAMA	
9	·	10	prior to publication A No.	
10	all over the world and getting them to work for	11		
11	nothing, and it's been very successful.		Q isn't that true?	
12	Q Have you worked directly with	12	A No, absolutely.	
13	Dr. Wright on any projects with that group?	13	Q After the publication of the article	
14	A No.	14	in JAMA, what, if anything, did you do to	
15	Q Do you know Dr. Wright personally?	15	familiarize yourself with the study or the	
16	A No.	16	article?	
17	Q Have you ever worked with him	17	A As I remember, and as I think I've	
18	professionally?	18	said, I read the article. I certainly read I	
19	A No. And I'm sure that after the	19	certainly spoke with my colleagues, particularly	
20	letter that I sent him, which I know was biting,	20	Dr. DeAngelis, who told me what had happened.	
21	we never shall.	21	By the way, this is after the it	
22	MR. MONTGOMERY: All right, I have no	22	was about this time that those letters came, the	
23	further	23	Wright letter to me which came because of	
24	THE WITNESS: I know that I never got a	24	Cochrane, the Hrachovec letter, I have no idea	
		122		1:
1	reply. That's all I can remember about it.	1	why it came to me, both of which went on. And at	1
2	MR. MONTGOMERY: All right, I have no	1 2	that point	1
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2 3 4 5	MR. MONTGOMERY: All right, I have no further questions at this time. We are going to take a quick break, defense counsel is going to prepare some questions, and then I might have	1 2 3 4 5	that point Q I'm sorry, is "that point" about mid 2001? A It was sometime before the publication	1
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Pharmacia None Page 121 - 124

	125			127
1	A That was not my responsibility. It	1	the publication of the letters, these slides	127
2	used one of the many things I did way back,	2	(indicating) were made in I imagine 2002 or so	
3	not then.	3	because they were made by my ex-assistant, who	
4	Q So the letters that were published in	4	came on in 2001.	
5	JAMA regarding the class article from	5	Q And the slides you're referring to,	
6	Silverstein, from Wright, you had nothing to do	6	that's what's been marked as Exhibit 42?	
7	with; is that right?	7	A Yes.	
8	A Nothing to do with those.	8	Q You didn't prepare these slides?	
9	Q Okay, you didn't review them	9	A "Carol," I said, and then I said,	
10	beforehand?	10	"make one like that (indicating) and with a	
11	A No.	11	jagged end at the bottom to indicate just what	
12	Q You didn't approve them?	12	it's called."	
13	A No.	13	The next one I definitely made myself.	
14	Q You didn't discuss them with your	14	The next one, she made. I said again, "Make it."	
15	colleagues at JAMA?	15	And in the slide, the middle bit is yellowed. In	
16	A No.	16	other words, "In retrospect, we acknowledged that	
17	Q Okay.	17	we could have avoided," which is the letter from	
18	A Dis I cannot say whether I	18	Silverstein, which it was my bias was it was	
		19	not as frank an admission of well, it wasn't	
19 20	discussed them or not, I just don't know. You	20	, and the second	
21	see, since they came to me and I forwarded them and I know that I wrote Wright this lengthy email	21	right, I suppose. Q The first and third pages of	
22	explaining how things worked, I can't say that I	22	Exhibit 42 are copies of pages from the class	
23	didn't discuss these letters, but I had no	23	article and the Silverstein reply, correct?	
23		23	A Correct.	
27	decision power over them whatsoever.	27	A Collect.	
	O. Do you recall having any discussion	_	O. What you said you prepared is the	128
1	Q Do you recall having any discussion	1	Q What you said you prepared is the	128
2	Q Do you recall having any discussion with your colleagues at JAMA regarding the	2	second page of Exhibit 42, correct?	128
2	Q Do you recall having any discussion with your colleagues at JAMA regarding the substance of any of those letters?	2	second page of Exhibit 42, correct? A Yes.	128
2 3 4	Q Do you recall having any discussion with your colleagues at JAMA regarding the substance of any of those letters? A No, I don't recall that.	2 3 4	second page of Exhibit 42, correct? A Yes. Q What sources, if any, did you consult	128
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2 3 4 5 6	Q Do you recall having any discussion with your colleagues at JAMA regarding the substance of any of those letters? A No, I don't recall that. Q So to the extent you're surmising that you might have discussed the letters, is it fair	2 3 4 5 6	second page of Exhibit 42, correct? A Yes. Q What sources, if any, did you consult to make Exhibit 42, the second page of Exhibit 42?	128
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Pharmacia None Page 125 - 128

	420			40
1	page of Exhibit 42; is that correct?	1	a recollection?	13
2	A No. This was part of a lecture which	2	A and that I got information from	
3	gradually developed on authorship. So that, no	3	other people too.	
4	doubt, when the when the VIGOR study came	4	Q Okay.	
5	through, I added that. That was later.	5	A My guess might be no, I don't	
6	Q But just so I'm sorry, just so I'm	6	all of this is guess. Of course, I don't.	
7	clear, you don't recall what you consulted to	7	Otherwise, I'd have said differently.	
8	make Exhibit 42, correct?	8	Q Understood. Just so we're clear, you	
9	A No. Except I do know "editors	9	don't have a recollection of looking at data on	
10	exasperated and furious" were definitely	10	the FDA website regarding class, correct?	
11	Dr. DeAngelis. And "laughing to the bank", I	11	A I have a recollection of looking at	
12	have no evidence for that beyond that's what it	12	the FDA data on class, but I cannot tell you	
13	looked like to me. Still does.	13	whether there were P values, if they're	
14	Q Do you have a recollection at any time	14	important. Confidence intervals might be a great	
15	of looking at the FDA website regarding class?	15	deal more interesting to me. I cannot tell you	
16	A No.	16	now exactly what was there.	
17	Q Do you how much time did you spend	17	I just my bias, as I've said, is	
18	looking at the FDA website regarding class?	18	I'm unlikely to have made this (indicating) if	
19	A Well I don't know.	19	none of it was true at the time in thea that I	
20	Q Sitting here today, do you have any	20	could try and confirm, that's all.	
21	recollection of what the underlying data is	21	Q Again, though, you don't have sitting	
22	regarding the class study?	22	here today a recollection of going on the FDA	
23	A No.	23	website regarding class, do you?	
24	Q Do you know the difference in the	24	A Well, I have a recollection that I did	
	400			
1	130 results at six months versus the entire study.	1	it	13
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2	results at six months versus the entire study period?	2	Q Other than having a recollection that	13
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Pharmacia None Page 129 - 132

	133		13
1	A No.	1	BY MR. HALPER:
2	Q Are you an expert on statistics?	2	Q Okay, just so we're clear, sometime
3	A No.	3	A I have not done this sort (indicating)
4	Q On COX-2s?	4	of trial. I'm at the other end of the I'm at
5	A No.	5	the editing end and publishing end. I'm not at
6	Q On NSAIDs?	6	the doing an end of trials like this.
7	A No.	7	Q Other than the one time that you
8	Q So coming back	8	testified to?
9	A I've produced a book on how to analyze	9	A I think to compare the two would be
10	trials and medical studies.	10	like comparing a bicycle with a Ferrari, and this
11	Q What's the title of that book?	11	(indicating) we would hope to be a Ferrari.
12	A The Users Guides to the Medical	12	Q By "this" you mean class?
13	Literature.	13	A That type of trial.
14	Q Okay, when was that published?	14	Q Is it fair to say that you've never
15	A 2002, I suppose, and we just finished	15	authored a published study similar to class?
16	an update. It's a fat book and it's a thin book,	16	A Correct.
17	and it's soon going to be an electronic book	17	Q Sometime after February 2001, your,
18	because it sold quite well. I didn't get a penny	18	for lack of a better word, involvement or
19	for	19	investigation of class started, correct? Is that
20	MR. NELSON: Let the record show that the	20	correct?
21	witness the witness let the record show the	21	A I looked at it, I read it.
22	witness was looking at me, and I was looking away	22	Q And that involvement consisted of
23	from him. THE WITNESS: In other words, what I'm	23	reading the general publication, right A (Nodding).
24			
24			
24	134		13
1	134 trying to say is trials tend to be similar,	1	13 Q You need to give a verbal response.
		1 2	
1	trying to say is trials tend to be similar,		Q You need to give a verbal response.
1 2	trying to say is trials tend to be similar, observational studies tend to be similar, and	2	Q You need to give a verbal response.A Yes.
1 2 3	trying to say is trials tend to be similar, observational studies tend to be similar, and editors of general medical journals tend to be	2	Q You need to give a verbal response.A Yes.Q Okay.
1 2 3 4	trying to say is trials tend to be similar, observational studies tend to be similar, and editors of general medical journals tend to be trained in that sort of thing. BY MR. HALPER:	2 3 4	Q You need to give a verbal response.A Yes.Q Okay.A Apologies. Sorry, Debbie.
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Pharmacia None Page 133 - 136

	137			139
1	turn your mic off because handling the mic is	1	how many conversations did you have with her	
2	something that makes noise on the record. So	2	regarding class?	
3	you're off until you put it on.	3	A I can't say now.	
4	BY MR. HALPER:	4	Q How long did any conversation with her	
5	Q Focusing on what you testified to, you	5	last?	
6	spoke with colleagues, how many colleagues did	6	A I don't know.	
7	you speak with regarding class?	7	Q Where did any of these conversations	
8	A I don't know.	8	occur?	
9	Q Did you speak with anyone besides	9	A I imagine most, you see, would tend	
10	Dr. DeAngelis?	10	to be on the phone.	
11	A I'm sure I did, but I don't know who.	11	Q Just I don't want you to imagine. If	
12	Q Okay.	12	you don't recall, that's fine.	
13	A My guess yeah, certainly I did,	13	What I'm asking you is do you have a	
14	certainly. For all I know, we had a discussion	14	recollection of where you were when you spoke to	
15	about it. I talk with colleagues about stuff	15	Dr. DeAngelis regarding class?	
16	every day.	16	A No. But since I'm here for a short	
17	Q Do you have a recollection of talking	17	amount of time, my imagination wasn't based on	
18	about class with anyone other than Dr. DeAngelis?	18	just nothing. I'm just saying likelihoods would	
19	A Any editor.	19	tell me that.	
20	Q I'm sorry, any colleague at JAMA.	20	Q I take it from your answer, you don't	
21	A Yeah. I am certain that I have	21	have a specific recollection	
22	discussed it with Dr. Phil Fontanarosa. The	22	A Correct.	
23	others, I can't say.	23	Q of the conversation?	
24	Q How many times did you discuss class	24	A No.	
	138		O Andrew deshare When when he	140
1	with Dr. Fontanarosa?	1	Q And you don't recall then what she	140
2	with Dr. Fontanarosa? A I don't know.	2	said to you and what you said to her?	14(
2	with Dr. Fontanarosa? A I don't know. Q How long did any of those discussions	2 3	said to you and what you said to her? A I recall that she was I do recall	140
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Pharmacia None Page 137 - 140

			,	
	141			143
1	Northwest. How could they be?" And then I	1	BMJ one.	
2	explained why one of them had come to me and the	2	Q The one that JAMA	
3	other one was a mystery. I think she must have	3	A In other words, the paper that formed	
4	been sitting in the audience, this Hrachovec	4	Exhibit whatever, and this would be at a meeting,	
5	person.	5	you know.	
6	I know that those that sequence	6	Q The meeting	
7	happened in a conversation with Cathy. Other	7	A It's the British Medical Journal paper	
8	than that, I don't know.	8	that he wrote with this the Dutch woman. I	
9	Q She didn't tell you anything about the	9	forget her name.	
10	data underlying class, did she?	10	Q You would have had a discussion with	
11	A No.	11	Dr. Juni regarding the BMJ editorial after the	
12	Q Did Dr. Fontanarosa ever tell you	12	editorial was published, correct?	
13	anything about the data underlying class?	13	A Yes.	
14	A Well, you've said "or somebody else".	14	A It's No. 32. Oh, yes, yes.	
15	You know, I like data. I mean it's and	15	Q You don't have a recollection of	
16	somebody must have done that.	16	speaking to Dr. Juni before he published the BMJ	
17	Q But my question was did	17	editorial, do you?	
18	Dr. Fontanarosa tell you?	18	A Oh, sure, yeah.	
19	A I thought you said "or anyone else".	19	Q Regarding class?	
20	Q I may have I just missed on his	20	A Not about class, no.	
21	name, but I was trying to say Dr. Fontanarosa.	21	Q Is it fair to say, Dr. Rennie, that	
22	Did he tell you anything?	22	other than reading the article and going to the	
23	A I don't know.	23	FDA website, there were no other sources for your	
24	Q And you don't have a recollection of	24	knowledge of substantive information regarding	
	440			444
,	appelling with appears other than Dr. DeAngelia or	1	ologo?	144
1 2	speaking with anyone other than Dr. DeAngelis or Dr. Fontanarosa regarding class, do you?	1 2	class? A No, it's not fair. What I'm saying is	
3		3	A No, it's not fair. What I'm saying is I don't know. I'm also saying it is highly	
4	A Specifically, no. Q And you don't have a recollection of	4	likely, probable that I did have other sources,	
5	how long conversations with either Dr. DeAngelis	5	but I don't know what they were at this length of	
6	or Dr. Fontanarosa, how long those conversations	6	time.	
7	lasted?	7	Q And those sources would be your	
8	A No.	8	conversations with people?	
9	Q Or how many there were?	9	A Or what they've written.	
10	A No. I say specifically no because I	10	Q Sitting here today, do you recall	
11	may have surely spoken with Peter Juni about this	11	reading any other articles regarding class other	
12	and with his colleague Matt Egger, who's also of	12	than Letters to Editors?	
13	Burn & Bristol, and I must surely have	13	A Well, there've been a number that have	
14	spoken you know, but I can't give you the date	14	been written, as you know. All right, here's	
15	or the time	15	one. I have I've discussed the class study	
16	Q Or what was discussed?	16	with David Henry of the University of New South	
17	A more than that. Just the class	17	Wales, who published a an obser a very big	
18	study, that's all.	18	analysis of multiple observational trials of	
19	Q But you don't recall what specifically	19	COX-2 inhibitors, coxibs like this, and that	
20	about the class study was discussed with any of	20	specific class came up. I	
	•	1	Q When did that conversation occur?	
21	these individuals, correct?	21		
21 22	these individuals, correct? A What I discussed with Dr. Juni as I	21 22	A Last year. I've discussed the matter	
22	A What I discussed with Dr. Juni as I	22	A Last year. I've discussed the matter	
22 23	A What I discussed with Dr. Juni as I recollect were two papers of his, one, an older	22 23	A Last year. I've discussed the matter with David Graham, who's a physician and an M	

Pharmacia None Page 141 - 144

	145			147
1	Q Well, let me try and narrow it a	1	would wreck me and wreck my journal.	
2	little. Between the publication of the	2	Q But I take it the answer is you don't	
3	between February of 2001 and June 2002 and	3	know?	
4	I'll tell you June 2002 is when the Juni	4	A No, I do not know.	
5	editorial was published.	5	Q And you also don't know whether or not	
6	A Yeah.	6	Pharmacia's stock was trading at an inflated	
7	Q (Continuing) who did you discuss	7	price due to the JAMA article, correct?	
8	class with?	8	A Haven't a clue.	
9	A I don't know, but I have certainly	9	Q And you don't know whether the	
10	discussed it with a number of people since.	10	reprints of the JAMA article that were	
11	Q Since June 2002?	11	distributed had any impact on the Pharmacia stock	
12	A One remembers most most recently.	12	price, do you?	
13	Q Do you understand that the Plaintiffs	13	MR. MONTGOMERY: Object to form.	
14	in this litigation are claiming that the JAMA	14	THE WITNESS: No. I didn't even know there	
15	publication of class caused Pharmacia's common	15	were any until it came up, I think. So I don't	
16	stock to trade higher, at a higher price than it	16	even know if that's true.	
17	otherwise would have?	17	BY MR. HALPER:	
18	A (Nodding).	18	Q And you don't know whether the JAMA	
19	Q Do you understand that the Plaintiffs	19	reprints that were distributed caused anyone to	
20	are claiming that?	20	buy or sell Pharmacia stock, do you?	
21	MR. MONTGOMERY: Object to form. Go ahead.	21	A I can't.	
22	BY MR. HALPER:	22	MR. MONTGOMERY: Object to form.	
23	Q Do you understand Plaintiffs are	23	THE WITNESS: No.	
24	claiming that?	24	MR. HALPER: Thank you.	
	146			14
1	A Actually, I thought it was what	1	BY MR. HALPER:	14
1 2		1 2	BY MR. HALPER: Q If you could take a look at	14
	A Actually, I thought it was what			14
2	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part	2	Q If you could take a look at	14
2	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so.	2	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to	14
2 3 4	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so. I understood that I've just found	2 3 4	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to Stephen Cristo?	14
2 3 4 5	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so. I understood that I've just found out that that is what this is all about.	2 3 4 5	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to Stephen Cristo? A Got it.	14
2 3 4 5 6	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so. I understood that I've just found out that that is what this is all about. Q Okay, you're not an expert on the	2 3 4 5 6	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to Stephen Cristo? A Got it. Q You got it? Do you recall	14
2 3 4 5 6 7	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so. I understood that I've just found out that that is what this is all about. Q Okay, you're not an expert on the stock market, are you?	2 3 4 5 6 7	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to Stephen Cristo? A Got it. Q You got it? Do you recall Mr. Montgomery directing your attention to Mona	14
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Actually, I thought it was what Mr. Montgomery told me, that wasn't that part of your opening remarks? I thought so. I understood that I've just found out that that is what this is all about. Q Okay, you're not an expert on the stock market, are you? A Oh, boy, no. Q You're not an investment professional, correct? A You got it. That's, no, I'm not. Q I take it you have no basis let me withdraw that. You don't know whether or not the price of Pharmacia stock was impacted by the JAMA article, do you? A No, I don't. Q You don't know whether any investors bought or sold Pharmacia stock based on the JAMA article, do you? A It's a great deal more than not knowing. I don't want to know.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q If you could take a look at Exhibit 22, which is the email from Mona Wahba to Stephen Cristo? A Got it. Q You got it? Do you recall Mr. Montgomery directing your attention to Mona Wahba's statement, "We are also cherry picking the data"? A Yes. Q Do you know Mona Wahba? A No. Q Do you know whether she worked for Pfizer or Pharmacia? A Well well, no, of course not, no. Q And I take it you also don't know A Well, I mean I can see what her what this says, what she's Q Her address? A That's all. Q Okay. A And I went by that, actually. I	12
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Pharmacia None Page 145 - 148

see from reading the email, correct? 2 A Right, groben protection. 3 A Yes. 4 O And sharp vious by filter coron", you're 4 reading the Enthiol 22* 4 A Correct. 5 A Yes. 6 D But you don't know Miss. Wishba, correct? 6 If any, involvement sharp bad in class, correct? 7 A Na. No. I do not. 8 O Bouty you don't know whether the had 8 O Soon whether or reading what's hear, you 9 reviewment at all in the class study. 9 Pave no basis to know whether or reading what's hear, you 10 any reviewment at all in the class study. 11 A Yes. 12 O All John Show any first you don't know whether the had 13 O Bouty you don't know whether the had 14 O Bouty you don't know whether the had 15 O Bouty you don't know whether the had 16 O Bouty you don't know whether the had 17 O Correct? 19 O All John Show anything about her of all 10 O Bouty And you don't know, do you, 11 A Yes. 10 O Bouty And you don't know, do you, 11 A Thor's — she's a physician. Than's 11 Correct? 12 A Thor's — she's a physician. 13 O Bouty And you don't know, do you, 14 a Bill know about her, but I — but ny — no. 14 whether or not in fact anyone cherry picted data 15 O Bouty And you whether whether whether or the fact anyone cherry picted data 16 O Day, do you know if Miss Wahle had 17 O Day, do you know if Miss Wahle had 18 O Bouty Sheet whether wh		149		
3 Ms. Washau, right? 4 roading the circhiet 22? 5 A Yes. 5 A Yes. 6 D But you don't know Ms. Washau, correct? 7 A No. 1 don not. 7 A No. 1 don not. 8 D C Nay, you don't know whether alse had 9 any involvement at all min clases study. 9 Involvement at all min clases study. 9 Involvement at all min clases study. 9 Involvement at all min clases study. 10 Correct? 11 A I don't know anything about her at all 1 correct? 12 A I don't know anything about her at all 1 correct? 13 C O'Ray, And you don't know, do you. 14 whether or rost in fact anytine clampy picked data 1 correct? 15 C Nay, Oxy you don't know, do you. 16 whether or rost in fact anytine clampy picked data 1 correct? 17 A Yes, Co. 18 A That's pulling it beckwards, but no is 1 correct? 19 A That's you'll you you work filters Washa was 1 correct you have no basis to know whether or some whether or	1		1	
4 R. Correct. 5 A Yes. 6 Disty out of throw Ms. Walha, correct? 7 A A Yes. 8 Disty out don't know Ms. Walha, correct? 8 A No, 1 do not. 9 any InnoVerneria at all in the class study. 9 any InnoVerneria at all in the class study. 10 correct? 11 A I don't know anything about her at all any InnoVerneria at all in the class study. 11 A I don't know anything about her at all any InnoVerneria at all in the class study. 12 Paper from what I Verbeen shown in the email. 13 Disty out of the Correct of the C	2	A Right, grodan.pfizer.com.	2	Q But we can agree that you don't know
5 A Yes. 6 But you don't know Ma, Wahba, correct? 7 A No. 1 Go not. 8 O Clicky you don't know whether she had and class, correct? 9 A No. 1 Go not. 9 A No. 1 Go not. 10 correct? 11 A I don't know wahber she had and class, some of the correct of t	3	Q And when you say "pfizer.com", you're	3	Ms. Wahba, right?
6 But you don't know Ms. Wat-ba, correct? 7 A No. 1 or not. 8 O Oksy, you don't know whether she had 9 any involvement at all in the class study. 9 have no basis to know whether or not Ms. Wathba 10 correct? 11 A I don't know anything about her at all 11 correct? 12 apart from whit I've boen shown in the ornal. 13 O Oksy, Ady you don't know yo you, 14 whether or not in fact anyone chemy picked data 15 based on Ms. Wathba's aman? 16 A That's — sho so a physician. That's 17 he anover. I shought Miss.— Miss Wathba was 18 O Oksy, Ady you don't know yo you, 19 A No. 2 on Ms. Wathba's aman? 19 O Assy, Ady you don't know yo you, 19 O A That's — sho so a physician. That's 19 O Oksy, Ady you don't know yo you, 19 O A That's — sho so a physician. 19 O A That's — sho so a physician. 19 O Oksy, Ady you don't know yo you, 19 O A That's — sho so a physician. 19 O Oksy, Ady you don't know yo you, 19 O A No. Ady you don't know whether 19 O A That's — sho so a physician. 19 O A That's — sho so a physician. 19 O Oksy, Ady you don't know whether 19 O Oksy, Ady you know if Miss Wahba was 10 O Oksy, Ady you know if Miss Wahba was 11 O Oksy, I'you know the Exhibat 27, 19 O Oksy, Ady you know if Miss Wahba have 11 O Oksy, I'you know to Exhibat 27, 19 O Oksy, Ady you know if Miss Wahba have 12 O Oksy, Ady you know if Miss Wahba have 13 I was the pouls and so alter provides her own 14 O Oksy, you don't know whether 15 Dasis for it right there. That's her definition, 15 O Oksy, Myou don't know whether the physical provides her own 15 Dasis for it right there. That's her definition, 16 O You're reading the email, correct? 17 Ms. NELSON: Disky, Yeah. 18 O You're reading the email, correct? 19 Yes, I do know. 19 Yes, I do know. 20 O You're reading the email, correct? 21 Wish Nelson: Oksy, Yeah. 22 I was fine the fine the physical provides her own 23 Dasis on it in grant has been to I make the statement also in one has a work you don't know that her basis is for 24 O Clay, you don't know that her basis is for 25 O O You're reading the email	4	reading the Exhibit 22?	4	A Correct.
7 A No. 1 do not. 8 O Clear, you don't know whether she had any involvement at all in the cleans study. 9 have no basis to know whether or not Ms. Wahba any involvement at all in the cleans study. 10 correct? 11 A I don't know anything about her at all 12 paper from what i've been shown in the menal. 12 apart from what i've been shown in the menal. 13 O Clear, And you don't know, do you. 14 all know about her, but I — but my — no. 14 bestieve on in the canone ochery picked data 15 based on Ms. Wahba sema? 15 based on Ms. Wahba sema? 16 A That's putting blackwards. but no is 16 A No. apart from being a physician. 17 O Clear, And you know or had the statement, right? 18 based on Ms. Wahba sema? 19 C Clear, Supra know the Estilia 27, 18 based on Ms. Wahba sema? 19 C Clear, Supra know the Estilia 27, 19 based on Ms. Wahba sema? 19 C Clear, Supra know the first statement, right? 10 A That's putting blackwards. but no is 16 A No. apart from being a physician. 11 de earnese. I betiliab 27, 20 based on Ms. Wahba sema? 12 de Nove, You wan no based to know whether 19 based on Ms. Wahba sema? 13 based on Ms. Wahba sema? 14 do Clear, Supra know the Estiliab 27, 18 based on Ms. Wahba sema? 15 based on Ms. Wahba sema? 16 a A That's putting the semanth of the statement? 17 do Clear, Supra know the Estiliab 27, 18 based on the control of the somewhat 18 based on the statement? 18 average that others chemy picked. 19 based for the definition. 20 Second of the or one of the somewhat 19 bicked exhibits where you were directed to the 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is an ormal from 20 second of base page, which is the definition, 20 second of base page, which is the definition 20 second of base page, which is	5	A Yes.	5	Q We did agree that you don't know what,
8	6	Q But you don't know Ms. Wahba, correct?	6	if any, involvement she had in class, correct?
9 any involvement at all in the class study, 10 concer? 11	7	A No, I do not.	7	A Yes.
9	8	Q Okay, you don't know whether she had	8	Q So other than reading what's here, you
10 correct? 11 A I don't know anything about her at all 12 apant from what I've been shown in the email. 13 Q Otay. And you don't know, do you, 14 whether or not in fact anyone charry picked data 15 based on Ma. Wibba's small? 15 based on Ma. Wibba's small? 16 A That's putting it backwards, but no is 16 A That's putting it backwards, but no is 17 from anower. I thought Miss- Miss Wahba was 18 swips that others cherry picked. 18 white its sour of the —one of the somewhat 19 A O loay, do you know if Miss Wahba had 20 any basis to make that statement flow its ward was a study duration. 21 A 'Using 6 months as a study duration. 22 Is was also plus, and an alse provides her own 23 basis for it right these. That's her definition, 24 believe, of cherry picking. And so I'd say, 25 basis of a No. 2 pant from being a physician. 26 Vourse reading the email. Correct? 27 Was that she puts, and an alse provides her own 28 basis for it right these. That's her definition, 29 basis for it right knew. 30 Vourse reading the email. Correct? 31 A That's all I have. 41 Q Olay, you don't know M. Wahba, right? 42 Q You for reading the email. Correct? 43 A That's all I have. 44 Q Olay, you don't know Ms. Wahba, right? 45 A Not at all. 46 Q You don't know Ms. Wahba, right? 47 In workment of had in class, correct? 48 A O You for those what flar as correct? 49 Q You don't know what, if any, 40 Q You don't know what her basis is for 41 Ms. NELSON: Okay, here it is. 42 THE WITNESS: No. No. no, no, no, i quit. 43 The WITNESS: 27, thank you. 44 G O'you go don't know what her basis is for 45 Ms. ReLSON: Okay, here it is. 46 A O'you are reading the email. Correct? 47 Ms. ReLSON: Okay, here it is. 48 THE WITNESS: 27, thank you. 49 Q You don't know what her basis is for 49 G You for those what here basis is for 40 Q Reader — Q perhaps, it's clear I'm — 41 G And on the page with the Bates stamp 41 G O War reading the static ment as the provincing in the details, "which is the statement alle 49 G O War reading the static parentheses "using a manufa	9	any involvement at all in the class study,	9	have no basis to know whether or not Ms. Wahba
12 spant from what I've been shown in the amail. 13 G Nay. And you don't know, do you, 13 all liknow about her, but i – but my – no. 14 velother or not in fact anyone chemy picked data 15 based on Ms. Wathar's email? 16 A That's putting it backwards, but no is 17 G O Nay, you and though Miss — Miss Wathaba was 18 saying that others cherry picked. 18 saying that others cherry picked. 19 G Nay, do you know of Miss Wathaba had 20 A Wathar's on make that statement? 21 A "Using 6 months as a study duration" 22 Is what she puts, and so she provides her own 23 basis for if right thate. That for endinition, 24 Ibelieve, of cherry picking. And so i'd say. 150 1 yes, I do know. 2 Is it is 38° 2 Q You're reading the email, correct? 2 Q You're reading the email, correct? 3 A That's all I have. 3 THE WITNESS: No, I'll find it in a second. 150 1 yes, I do know. 2 I Is it 38° 2 MR. NELSON: I'ls 27. 3 A That's all I have. 4 Q Ckay, you don't know Ms. Watha, right? 4 Q Ckay, you don't know Ms. Watha, right? 5 A Not at all. 5 Fight. 6 Q You don't know Ms. Watha, right? 6 A O' You don't know Ms. Watha, right? 7 Involvement be dain i class, correct? 8 A O' Course not. 9 Q You're reading the email, correct? 9 Q You for it now what it all have. 1 S Fight. 1 Involvement be dain i class, correct? 1 A Yes, I do. 'Wo are also cherry 1 D Q O you recall Mr. Montgomery showing 1 D Q O you recall Mr. Montgomery showing 1 D Q O you are reading the email, correct? 1 A Yes, I do. 'Wo are also cherry 1 O Q Water in the basis is for 1 G Q O on an on the page with the Bates stamp 1 o making that statement abe 1 a class, so ready of uration. 'And that seems to 1 G Q O on an on the page with the Bates stamp 1 o making that streement do work and the same to 1 G Q O on an on the page with the Bates stamp 1 o make page with the follows it in permittees "Living the dair," which is the statement she 1 o you and I are indured that you 2 o Q Based — C perhaps, it's clear Im — 3 O O on throw why the dair that you don't know any of the provincial tha	10		10	was qualified to make the statement that's here,
12 apart from what I've been shown in the email. 13 G New, And you don't know, do you, 14 all know about her, but I – but my – no. 14 based on Ms. Wahba's email? 15 based on Ms. Wahba's email? 16 A That's putting the backwards, but no is 16 A That's putting the backwards, but no is 17 G New, I've you the following the semilar of the control of the c	11	A I don't know anything about her at all	11	correct?
13 Q Okay, And you don't know, do you. 14 whether or not in fact anyone cherry picked data 15 based on Ma, Wahaha's email? 15 based on Ma, Wahaha's email? 16 A That's putting it backwards, but no is 17 the answer. I throught Miss - Miss Wahaha was 17 do A No. apart from being a physician. 17 the answer. I throught Miss - Miss Wahaha was 18 asying that others cherry picked. 19 Q Okay, dy ouk know if Miss Wahaha was 19 Q Okay, dy ouk know if Miss Wahaha had 19 thicker exhibits where you were directed to the 20 any basis to make that statement? 21 A "Using 6 months as a study duration" 22 it what she puts, and so ahe provides her own 22 it was the puts, and so ahe provides her own 22 it was a few or the puts, and so are provides her own 22 it was a few or the puts, and so are provides her own 23 basis for it right there. That's her definition, 24 I believe, of cherry picking. And so I'd say, 25 Q You're reading the email, correct? 26 Williams of the say of	12		12	A That's she's a physician. That's
Whether or not in fact anyone cherry picked data				
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Pharmacia None Page 149 - 152

	153		
1	A No. I now know I'm going to be made	1 isn't tha	at right?
2	to look like a clown, but, no, I don't.	2 A	This was a Merck author who was taken
3	Q You don't know, for instance, what her	3 off sh	ne was on the web version and then was
4	position is?	4 disappe	eared.
5	A No.	5 Q	You're
6	Q Do you recall that Mr. Montgomery	6 A	And she was a Merck author, right.
7	directed you to a bullet point that says, "Worse	7 Q	Right. It's not about the class
8	case: We have to attack the trial design if we	8 study, i	s it?
9	do not see the results we want"? Do you recall	9 A	No.
10	that statement?	10 Q	Are you aware of
11	A Yes.	11 A	I believe not. This was I think
12	Q In the email, correct?	12 the first	author was David Solomon, David
13	A Yes.	13 Avorn,	and various people like that were on it,
14	Q Okay. You don't have any basis to		was just offed.
15	know whether anyone acted on that statement, do		This situation that you're quoted
16	you?		about
17	A No.	_	Yes.
18	Q Exhibit 49 is the I'll butcher the		in Exhibit 48, that doesn't involve
	name the Hrachovec.	19 class, o	
19			
20	A 46.		Not at all.
21	Q 49.		Are you aware of the situation you're
22	A 49, sorry.		ing or commenting on in Exhibit 48
23 24	Q The Hrachovec letter. MR. NELSON: This is it.		g to class? No.
1	THE WITNESS: Oh I'm corn, you Voob	1 0	Voutelland
1	THE WITNESS: Oh, I'm sorry, yes. Yeah.	1 Q	You talked
2	THE WITNESS: Oh, I'm sorry, yes. Yeah. BY MR. HALPER:	2 A	You talked Except except there's the strange
2	THE WITNESS: Oh, I'm sorry, yes. Yeah. BY MR. HALPER: Q Well, I don't need let's see if I	2 A 3 busines	You talked Except except there's the strange ss of who signed the letter, but that's
2 3 4	THE WITNESS: Oh, I'm sorry, yes. Yeah. BY MR. HALPER: Q Well, I don't need let's see if I can do it without showing it to you.	2 A 3 busines 4 often a	You talked Except except there's the strange as of who signed the letter, but that's matter of contention.
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Pharmacia None Page 153 - 156

	157			450
1	So my answer to that is it was	1	what I've just said.	159
2	exceptional, very exceptional, that letter, for	2	Q Okay. Let me try	
3	that sequence of events to happen, that's all.	3	A Am I wrong here?	
4	Q You're not aware of Dr. Silverstein	4	Q No, no. Let me try and clarify it. I	
5	walking away from that letter, are you?	5	think I'm being more simplistic than you.	
6				
7		6 7	A Well, I was I'm desperately trying	
	Q Are you aware of any of the authors of		to help here.	
8	that letter walking away from the letter?	8	Q In Exhibit 48, which was the Wall	
9	MR. MONTGOMERY: Objection to form.	9	Street that's okay, you don't have to go	
10	THE WITNESS: Well, I haven't had time to	10	there. It's the Wall Street Journal article.	
11	read all the documents that I was given by	11	A I have it.	
12	Mr. Montgomery concerning that very issue. I	12	Q Okay? You're commenting on a	
13	just you know, just didn't haven't had	13	situation of the Merck person asking to be taken	
14	time. So I don't know whether they walked away.	14	off as an author, correct?	
15	I do remember that in one of the in	15	A A paper.	
16	one of those specific documents, it says, Here's	16	Q A paper. Correct? And you testified	
17	the letter, we have to send it out to the rest.	17	that you're not aware that anything like that	
18	This was me reading fast as I could. And that	18	happened in connection with the JAMA publication	
19	so that whether they walked away or not is	19	of the class study; is that right?	
20	unclear, but I'm I seem to remember those	20	A I don't know whether she asked to be	
21	words in that little packet to do with the	21	taken off. She was taken off.	
22	with the letter itself or if it was a	22	Q Okay.	
23	BY MR. HALPER:	23	A And I am not aware of that exact thing	
24	Q Let's take a look at Exhibit 31, which	24	happening, but it's a puzzle for me, given that I	
	158			160
1	is Dr. Silverstein's reply letter.	l .		
	is Dr. Silverstein's reply letter.	1	was given a document that suggested it.	
2	A No, that wasn't of course, of	2	was given a document that suggested it. Q Well, I'm focusing now on the	
2				
	A No, that wasn't of course, of	2	Q Well, I'm focusing now on the	
3	A No, that wasn't of course, of course, I'll do, but that wasn't what I was	2	Q Well, I'm focusing now on the September of 2000 publication of the class study,	
3 4	A No, that wasn't of course, of course, I'll do, but that wasn't what I was talking about.	2 3 4	Q Well, I'm focusing now on the September of 2000 publication of the class study, okay? That's Exhibit 3, where the seventeen	
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3 4 5 6	A No, that wasn't of course, of course, I'll do, but that wasn't what I was talking about. Q Oh. Well, that's what I was talking about.	2 3 4 5 6	Q Well, I'm focusing now on the September of 2000 publication of the class study, okay? That's Exhibit 3, where the seventeen authors are listed. Do you want to get that? A No, that's all right, I've got it.	
3 4 5 6 7	A No, that wasn't of course, of course, I'll do, but that wasn't what I was talking about. Q Oh. Well, that's what I was talking about. A I was talking about you asked a	2 3 4 5 6 7	Q Well, I'm focusing now on the September of 2000 publication of the class study, okay? That's Exhibit 3, where the seventeen authors are listed. Do you want to get that? A No, that's all right, I've got it. Q You understand that the seventeen	
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A No, that wasn't of course, of course, I'll do, but that wasn't what I was talking about. Q Oh. Well, that's what I was talking about. A I was talking about you asked a question about the preparation of that letter and whether anyone walked whether any of the authors walked away from it, and I was about to say it and I said I was fed some letters Q Um-hum. A Some sorry, some documents. And in those documents, somebody says, I believe, We'll have to here's the letter that we've prepared, we'll have to show it to the other authors or to the authors. Q Um-hum. A If that happened and their names don't appear here, I cannot possibly know whether they walked away, weren't shown it or what. Q Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Well, I'm focusing now on the September of 2000 publication of the class study, okay? That's Exhibit 3, where the seventeen authors are listed. Do you want to get that? A No, that's all right, I've got it. Q You understand that the seventeen authors are listed A Right. Q correct? Are you do you have any reason to believe that any of those 17 authors at any time have in any way attempted to distance themselves or not stand behind the JAMA publication? MR. MONTGOMERY: Object to form. THE WITNESS: Well, as a matter of fact, I do. Until I can look at that, that document that I was provided with, if my recollection is correct and I could be wrong. BY MR. HALPER: Q I think you're referring to Exhibit 39.	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A No, that wasn't of course, of course, I'll do, but that wasn't what I was talking about. Q Oh. Well, that's what I was talking about. A I was talking about you asked a question about the preparation of that letter and whether anyone walked whether any of the authors walked away from it, and I was about to say it and I said I was fed some letters Q Um-hum. A Some sorry, some documents. And in those documents, somebody says, I believe, We'll have to here's the letter that we've prepared, we'll have to show it to the other authors or to the authors. Q Um-hum. A If that happened and their names don't appear here, I cannot possibly know whether they walked away, weren't shown it or what.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q Well, I'm focusing now on the September of 2000 publication of the class study, okay? That's Exhibit 3, where the seventeen authors are listed. Do you want to get that? A No, that's all right, I've got it. Q You understand that the seventeen authors are listed A Right. Q correct? Are you do you have any reason to believe that any of those 17 authors at any time have in any way attempted to distance themselves or not stand behind the JAMA publication? MR. MONTGOMERY: Object to form. THE WITNESS: Well, as a matter of fact, I do. Until I can look at that, that document that I was provided with, if my recollection is correct and I could be wrong. BY MR. HALPER: Q I think you're referring to	

Pharmacia None Page 157 - 160

	161		
1	Q Sure.	1	BY MR. HALPER:
2	A and check.	2	Q But my question was, you know,
3	Q Exhibit 39, which I think is the Goran	3	putting taking into account what you've said
4	Ando email of August 13th, 2001.	4	about this document, that was part of my
5	A It says, "My recommendation," and "it"	5	question, do you have any basis to believe that
6	is Goran Ando or, no, George Geis says, "Once	6	any of those seventeen individuals have attempted
7	we receive everyone's comments we need to decide	7	to walk away from or disavow the JAMA
8	the next steps. My recommendation is that the	8	publication?
9	letter to JAMA come from all the CLASS authors.	9	MR. MONTGOMERY: Object to form.
10	Once we redraft the letter we would send it to	10	THE WITNESS: No, I don't.
11	the authors and get their buy-in with the intent	11	BY MR. HALPER:
12	of making the 10 day timeline imposed by JAMA.	12	Q Okay, and if you look at the
13	Do you agree?"	13	Silverstein reply, Exhibit 31, there are three
14	And then and that was the last	14	authors listed Silverstein, Simon and Faich,
15	thing here. So when I read that, I say they	15	correct?
16	might have walked away or run away or not gone	16	A Yes.
17	through with his recommendation or anything. In	17	Q Do you have any reason to believe that
18	other words, I have here in my hand something	18	they have disavowed Exhibit 31 in any way?
19	that makes me very uneasy of saying yes to	19	A No.
20	your to your question, that's all.	20	Q We you testified earlier about
21	Q Okay.	21	guest authorship. Do you recall that?
22	A And I won't say yes to it.	22	A Yes.
23	Q Okay.	23	Q If guest authorship occurs, does that
24	A All right, that's all.	24	necessarily mean that the article is incorrect?
1	Q Let me	1	MR. MONTGOMERY: Object to form.
1	Q Let me A That's what I was remembering.	1 2	MR. MONTGOMERY: Object to form. THE WITNESS: Yes.
2	A That's what I was remembering.	2	THE WITNESS: Yes.
2	A That's what I was remembering. Q Do you know whether Dr. Geis's	2	THE WITNESS: Yes. BY MR. HALPER:
2 3 4	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the	2 3 4	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it
2 3 4 5	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the authors was acted on?	2 3 4 5	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it mean necessarily that other than who wrote it,
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2 3 4 5 6 7	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the authors was acted on? A No idea. Q For all you know, it could have been a	2 3 4 5 6 7	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it mean necessarily that other than who wrote it, does that does it mean that the article, the substance, is incorrect?
2 3 4 5 6 7 8	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the authors was acted on? A No idea. Q For all you know, it could have been a decision that had come from the three individuals	2 3 4 5 6 7 8	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it mean necessarily that other than who wrote it, does that does it mean that the article, the substance, is incorrect? A No.
2 3 4 5 6 7 8 9	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the authors was acted on? A No idea. Q For all you know, it could have been a decision that had come from the three individuals who in fact authored the letter; isn't that true?	2 3 4 5 6 7 8 9	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it mean necessarily that other than who wrote it, does that does it mean that the article, the substance, is incorrect? A No. Q And if an article is ghost written,
2 3 4 5 6 7 8 9 10	A That's what I was remembering. Q Do you know whether Dr. Geis's suggestion that the letter come from all the authors was acted on? A No idea. Q For all you know, it could have been a decision that had come from the three individuals who in fact authored the letter; isn't that true? A Could well be.	2 3 4 5 6 7 8 9	THE WITNESS: Yes. BY MR. HALPER: Q If there's guest authorship, does it mean necessarily that other than who wrote it, does that does it mean that the article, the substance, is incorrect? A No. Q And if an article is ghost written, other than that fact, does the fact that it is
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Pharmacia None Page 161 - 164

	ACE		
1	testified that they wrote it, and it definitely	1	paragraph in the second column starting, "This
2	wasn't ghost written, therefore, but I	2	all implies", do you see that?
3	Q But just if something is ghost	3	A Yes.
4	written, we assume some article was ghost	4	Q Okay. "This all implies that the data
5	written	5	after 6 months are not valid for examining
6	A Yeah.	6	drug-induced GI toxicities. Based on these
7	Q I understand that what you said	7	concerns, the authors concluded that the 6-month
8	that it's fundamental.	8	analyses of complicated ulcers and symptomatic
9	A Yeah, yeah, yeah.	9	ulcers were less subject to bias and would
10	Q But does that mean that the substance	10	reflect true drug effects and therefore should be
11	of the article is necessarily incorrect?	11	the basis of the report of the trial." Do you
12	MR. MONTGOMERY: Object to form.	12	see that?
13	THE WITNESS: Well, it depends upon what	13	A Yes.
14	you mean by incorrect. It doesn't work like	14	Q You don't have any basis to disagree
15	that, I'd say.	15	with Dr. Silverstein's statement as to whether
16	BY MR. HALPER:	16	the post six month data is valid, do you?
17	Q Does it mean the data presented in a	17	MR. MONTGOMERY: Object to form.
18	given article is incorrect?	18	THE WITNESS: Yes.
19	MR. MONTGOMERY: Object to form.	19	BY MR. HALPER:
20	THE WITNESS: Not necessarily. It doesn't	20	Q You testified you didn't independently
21	mean necessarily it's incorrect, that's right,	21	analyze the data, correct?
22	but it may mean that the whole setup or the	22	A But you didn't ask me if it was
23	particular data that are presented or the	23	independent, and it wasn't. I was told it was
24	analysis or whatever are incorrect.	24	incorrect.
-			
	166		
	166 BY MR. HALPER:	1	Q By who?
1		1 2	Q By who? A I believe Peter Juni, but I can't
1 2	BY MR. HALPER:		·
1 2 3	BY MR. HALPER: Q But, again, you don't have any reason	2	A I believe Peter Juni, but I can't
1 2 3 4	BY MR. HALPER: Q But, again, you don't have any reason to believe that ghost writing occurred here,	2	A I believe Peter Juni, but I can't remember. I just I don't remember now.
1 2 3 4 5	BY MR. HALPER: Q But, again, you don't have any reason to believe that ghost writing occurred here, correct?	2 3 4	A I believe Peter Juni, but I can't remember. I just I don't remember now. Q Okay, other than someone else telling
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1 2 3 4 5 6 7 8	BY MR. HALPER: Q But, again, you don't have any reason to believe that ghost writing occurred here, correct? A No. THE REPORTER: I'm sorry, what was your answer?	2 3 4 5 6 7	A I believe Peter Juni, but I can't remember. I just I don't remember now. Q Okay, other than someone else telling you A Right. Q that Dr. Silverstein is wrong
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Pharmacia None Page 165 - 168

		.	
	169		17
1	all you know, Dr. Silverstein's statement could	1	results after six months are statistically
2	very well be correct; isn't that true?	2	suspect, if we assume that for a minute, isn't it
3	MR. MONTGOMERY: Object to form.	3	true that the post six month dataset will not be
4	THE WITNESS: Well, if I'd been told it	4	instructive regarding the safety or efficacy of
5	wasn't correct, how can I answer that in yes?	5	Celebrex?
6	I'd say no.	6	A That doesn't follow.
7	BY MR. HALPER:	7	MR. MONTGOMERY: Object to form.
8	Q You have no basis other than what	8	BY MR. HALPER:
9	Dr. Juni told you	9	Q Why not?
10	A Or	10	A The post six months what I have
11	Q to disagree with Dr. Silver	11	been told is that the post six months results,
12	A Or whoever it was who told me.	12	which are really the only important ones or the
13	Q Sorry, I just need to finish the	13	long ones are the most important ones, of course,
14	statement.	14	with any drug like this, I'm told that they
15	A I'm	15	really overturned.
16	Q No. You have no basis other than what	16	BY MR. HALPER:
17	someone told you	17	Q But you
18	A Yes.	18	A Moreover, they didn't stick to the
19	Q to disagree with	19	protocol, they changed it 'round. And that, of
20	A Right.	20	course, introduces a few statistical problems,
21	Q Dr. Silverstein's statement?	21	again, I'm told, very severe statistical problems
22	A Right.	22	if you change the thing in especially, if you
23	MR. MONTGOMERY: Object to form.	23	change it in analysis, during analysis.
24		24	THE VIDEOGRAPHER: Pardon me, Counselor,
	170)	17
1	BY MR. HALPER:) 1	17 I'm at the end of the tape.
1 2			
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Pharmacia None Page 169 - 172

	173		
1	Q Okay, that's the "with a bit of data	1	BY MR. HALPER:
2	massage" paragraph, right?	2	Q Okay. And do you have any reason to
3	A Yes.	3	believe that
4	Q Okay. Do you know Emilio Arbe?	4	A Well
5	A No.	5	Q Arbe is qualified to say whether or
6	Q Okay, do you know who he worked for at	6	not the reason that Geis and his team focused on
7	this time?	7	the six month data is simply to make the it'd
8	A No.	8	look better?
9	Q Do you know what position he held at	9	MR. NELSON: Do you have to change your
10	this time?	10	further your previous question or I mean
11	A Somewhat junior to Jim Lefkowith or	11	answer? Do you have to supplement it?
12	Magnus somebody.	12	THE WITNESS: Yes. I was trying to say
13	Q But other than looking at the email,	13	you asked if he was qualified. I don't know his
14	you don't know what position he held?	14	degrees.
15	A Oh, no, no.	15	All I'm saying is that he wasn't
16	Q And do you know what, if any,	16	completely unqualified because I thought that the
17	involvement he had in the class study?	17	points and I read this extremely rapidly and
18	A Don't know.	18	only once that these were interesting
19	Q And do you know whether or not he	19	comments.
20	actually had any basis for making the statements	20	So he's not completely clueless, this
21	that appear on Exhibit 28?	21	guy, and I'd say he was quite a critic. So
22	A Yes.	22	qualified, not qualified, I don't know, but I
23	Q Why do you say that?	23	certainly don't know whether he's got a degree.
24	A Well, he writes here, "With a bit of	24	certainly don't know whether he s got a degree.
	174		
1	data massage, what Steve Geis and his team have	1	BY MR. HALPER:
1		1 2	
	data massage, what Steve Geis and his team have		BY MR. HALPER:
2	data massage, what Steve Geis and his team have done is to focus on the 6 month data", and I	2	BY MR. HALPER: Q Well, you don't know Arbe, correct?
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Pharmacia None Page 173 - 176

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1	177	,	ion't true. Lide hove a reason. This is how	179
1	A And my experience is that people focus	1	isn't true. I do have a reason. This is how	
2	on what they want to focus on, and optimists, as	2	researchers behave.	
3	we all are, tend to do that. That's one of the	3	Q You're making a generalization, aren't	
4	big problems in reporting a medical research.	4	you?	
5	And if Steve Geis did that, as he seems to have	5	A Indeed, yes, from evidence.	
6	done, he's by no means a rarity.	6	Q But not regarding Steve Geis, correct?	
7	Q Okay, you don't know Steve Geis,	7	A No.	
8	correct?	8	Q And not regarding class, correct?	
9	A Not at all.	9	A Correct.	
10	Q You don't know why he did anything he	10	Q And not regarding Emilio Arbe,	
11	did in connection with class, right?	11	correct?	
12	A I'm just saying	12	A Correct.	
13	Q Well	13	Q You don't know any of these people	
14	A No, I don't.	14	that we're talking about	
15	Q Okay. And you don't know if Arbe	15	A Correct.	
16	knows Steve Geis, right?	16	Q right?	
17	A No, I don't.	17	A I've said that.	
18	Q And therefore, if he doesn't, he has	18	Q And so you don't know what Steve	
19	no basis to so opine on why Steve Geis did	19	Geis, what he did in connection with class,	
20	anything he did in connection with class,	20	correct?	
21	correct?	21	MR. MONTGOMERY: Object to form.	
22	MR. MONTGOMERY: Object to form.	22	BY MR. HALPER:	
23	THE WITNESS: Well, I can't draw that	23	Q I didn't say, Do you have any basis?	
24	conclusion.	24	I said, You don't know why he did what he did?	
	178			180
1	BY MR. HALPER:	1	A No.	180
2	BY MR. HALPER: Q Why?	2	MR. MONTGOMERY: Object to form.	180
2	BY MR. HALPER: Q Why? A For the reason I said. There's plenty	2	MR. MONTGOMERY: Object to form. BY MR. HALPER:	180
2 3 4	BY MR. HALPER: Q Why? A For the reason I said. There's plenty of evidence for optimistic reporting. I'd say	2 3 4	MR. MONTGOMERY: Object to form. BY MR. HALPER: Q And you don't know if Emilio Arbe has	180
2 3 4 5	BY MR. HALPER: Q Why? A For the reason I said. There's plenty of evidence for optimistic reporting. I'd say every week we have to change conclusions, and	2 3 4 5	MR. MONTGOMERY: Object to form. BY MR. HALPER: Q And you don't know if Emilio Arbe has any reason that he knows	180
2 3 4 5	BY MR. HALPER: Q Why? A For the reason I said. There's plenty of evidence for optimistic reporting. I'd say every week we have to change conclusions, and indeed, I know that this is correct because with	2 3 4 5 6	MR. MONTGOMERY: Object to form. BY MR. HALPER: Q And you don't know if Emilio Arbe has any reason that he knows A No.	180
2 3 4 5 6 7	BY MR. HALPER: Q Why? A For the reason I said. There's plenty of evidence for optimistic reporting. I'd say every week we have to change conclusions, and indeed, I know that this is correct because with two others I've just finished a study of 124	2 3 4 5 6 7	MR. MONTGOMERY: Object to form. BY MR. HALPER: Q And you don't know if Emilio Arbe has any reason that he knows A No. Q why Steve Geis, what he did what	180
2 3 4 5 6 7 8	BY MR. HALPER: Q Why? A For the reason I said. There's plenty of evidence for optimistic reporting. I'd say every week we have to change conclusions, and indeed, I know that this is correct because with two others I've just finished a study of 124 metro analyses, and this will explain it. And	2 3 4 5 6 7 8	MR. MONTGOMERY: Object to form. BY MR. HALPER: Q And you don't know if Emilio Arbe has any reason that he knows A No. Q why Steve Geis, what he did what he did	180
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Pharmacia None Page 177 - 180

		1		
	181			183
1	A No.	1	THE WITNESS: Thank you. Yeah, Boston	
2	Q If there's more, I'm happy to hear it.	2	University, yeah.	
3	A No, no. And I'm trying to get across	3	BY MR. HALPER:	
4	the fact that we make judgments about people	4	Q Okay, how do you know of Dr. Wolfe?	
5	about things, not just based on them, but on the	5	A Because I may have used him as a	
6	circumstances, the context.	6	reviewer, I may have read something by him.	
7	And the context tells me, just as the	7	they the sort of hot research medical world	
8	context tells me that Arbe, whatever his	8	isn't that big, as I'm sure the law is the same,	
9	qualifications or lack of them, is no fool. The	9	you know. All professions are fairly small, and	
10	context also tells me that this is the way a lot	10	I tend to know because either at the New England	
11	of researchers behave.	11	Journal where I was or here, you're in the center	
12	What I am saying is, also, I don't	12	of a web. I can't answer more than that.	
13	know whether Steve Geis did in the case of class,	13	Q No, that's fine.	
14	but I am not going to be put in a position of	14	A I wouldn't know him in a crowd.	
15	saying I have no basis for saying this is how	15	Q What is your opinion of his work?	
16	researchers do behave.	16	MR. MONTGOMERY: Object to form.	
17	Q Fair enough.	17	THE WITNESS: Well, all I can say is he's	
18	A That's all I'm saying.	18	got a good reputation, and I	
19	Q I hear you.	19	BY MR. HALPER:	
20	A Yeah. I didn't want to be forced in a	20	Q Do you have have any reason to	
		21	question his integrity?	
21 22	peculiar position. Q Okay, and I thought, but maybe I	22	A None.	
	•			
23	didn't do a good enough job, that I changed my question.	23	Q Do you have any reason to question the quality of his work?	
24				
24				
24	182			184
1	182 A Yeah.	1	A None.	184
		1 2	A None. Q In fact, his reputation is good,	184
1	A Yeah.			184
1 2	A Yeah. Q Do you know why Steve Geis did what he	2	Q In fact, his reputation is good,	184
1 2 3 4	A Yeah. Q Do you know why Steve Geis did what he did in connection with class? A No.	2 3 4	Q In fact, his reputation is good, correct? A Yes.	184
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Pharmacia None Page 181 - 184

	1	85	1
1	could have noticed, and two, why was it buried	1	Q If you could turn to Exhibit 32, which
2	there?	2	is the Juni editorial
3	So it makes me this is very sad,	3	MR. NELSON: (Tendering document to
4	isn't it? Why isn't it here? Why isn't that one	4	witness).
5	of the main findings? Why is that not reported?	5	THE WITNESS: Thank you.
6	Why is it apparently just there? I don't know if	6	BY MR. HALPER:
7	it's more.	7	Q Are you with me?
8	Q But it does disclose, does it not,	8	A Yes, thank you.
9	that the study ran for more than six months	9	Q Okay. Well, before we get to that,
10	A Yes.	10	we've talked about the fact that the full study
11	Q and data was collected for more	11	data was posted on the FDA website in February
12	than six months?	12	2001; isn't that right?
13	A Yes.	13	MR. MONTGOMERY: Object to form.
14	Q Both those things are disclosed,	14	THE WITNESS: I believe I can't say
	correct?		
15 16		15	whether it was February, you know, I don't remember, but we certainly talked about that,
	A It discloses that the protocol says that they should be, that's what. And so and		
17		17	yes. I take I take your word for it. I don't
18	what I haven't had time since then is to check	18	know.
19	that there were absolutely no data. You see	19	BY MR. HALPER:
20	adverse effects during the six month treatment	20	Q In 2001
21	period, and that was the crucial thing here,	21	A Yeah.
22	wasn't it? At six month, six month, six month.	22	Q at some point, the full dataset
23	You see, it's like saying, I disclosed	23	A Yeah.
	my number plate by having it tacked under the		
	1	86	1
1	bottom of my sump pump, you know. It's not	86	A Yeah.
1 2			
	bottom of my sump pump, you know. It's not	1	A Yeah.
2	bottom of my sump pump, you know. It's not that's not how you do it. And it's there in the	1 2	A Yeah. Q on the FDA website
2	bottom of my sump pump, you know. It's not that's not how you do it. And it's there in the protocol, apparently, but where is it in the	1 2 3	A Yeah. Q on the FDA website A Yeah.
2 3 4	bottom of my sump pump, you know. It's not that's not how you do it. And it's there in the protocol, apparently, but where is it in the important places? This (indicating) is what most	1 2 3 4	A Yeah. Q on the FDA website A Yeah. Q is that right?
2 3 4 5	bottom of my sump pump, you know. It's not that's not how you do it. And it's there in the protocol, apparently, but where is it in the important places? This (indicating) is what most people read, like 90%. Where is it in the	1 2 3 4 5	A Yeah. Q on the FDA website A Yeah. Q is that right? A Yeah.
2 3 4 5 6	bottom of my sump pump, you know. It's not that's not how you do it. And it's there in the protocol, apparently, but where is it in the important places? This (indicating) is what most people read, like 90%. Where is it in the results? So I'd say, no, it's not properly	1 2 3 4 5 6	A Yeah. Q on the FDA website A Yeah. Q is that right? A Yeah. MR. MONTGOMERY: Object to form.
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Pharmacia None Page 185 - 188

	190			19
1	189 can't remember.	1	protocol that was established before they were	19
2	BY MR. HALPER:	2	begun?	
3	Q Okay, if you look at the Juni article,	3	A No.	
4	the second page	4	Q All right.	
5	A Uh-huh.	5	A But no. No is the answer.	
6	Q do you see the first full paragraph	6		
7	says, "Two issues cause concern", and then	7	slides that you prepared, Exhibit 42?	
8	there's a "firstly"?	8	A Yes.	
9	A Yes.	9	MR. NELSON: (Tendering document to	
10	Q And that continues down through the	10	witness).	
11	end of that paragraph?	11	THE WITNESS: Thank you.	
12	A Yes.	12	BY MR. MONTGOMERY:	
13	Q Do you know one way or the other	13	Q All right, would you please turn to	
14	whether anything in this section of the Juni	14	the third page?	
15	editorial is was not already contained in the	15	A (Witness so doing).	
16	FDA website postings?	16	Q And on that page is an excerpt of the	
17	MR. MONTGOMERY: Object to form.	17	Silverstein letter to JAMA; is that correct?	
18	THE WITNESS: No, I didn't I didn't	18	A Right.	
19	check.	19	Q All right, in the middle of the first	
20	BY MR. HALPER:	20	column, do you see the part that you highlighted	
21	Q So, for all you know, everything in	21	beginning "In retrospect"?	
22	here could have already been disclosed on the FDA	22	A Yes.	
23	website	23	Q I'm going to read it into the record.	
24	MR. MONTGOMERY: Object to form.	24	"In retrospect, we acknowledge that we could have	
	190			19
1	190 BY MR. HALPER:	1	avoided confusion by explaining to the JAMA	19
1 2		1 2	avoided confusion by explaining to the JAMA editors why we chose to inform them only of the	19
	BY MR. HALPER:			1:
2	BY MR. HALPER: Q (Continuing) isn't that right?	2	editors why we chose to inform them only of the	1
2	BY MR. HALPER: Q (Continuing) isn't that right? A Could be.	2	editors why we chose to inform them only of the six month analyses and not the longer term data	1:
2 3 4	BY MR. HALPER: Q (Continuing) isn't that right? A Could be. MR. HALPER: No further questions right	2 3 4	editors why we chose to inform them only of the six month analyses and not the longer term data that were available to us when we submitted the	1!
2 3 4 5	BY MR. HALPER: Q (Continuing) isn't that right? A Could be. MR. HALPER: No further questions right now.	2 3 4 5	editors why we chose to inform them only of the six month analyses and not the longer term data that were available to us when we submitted the manuscript. We submitted only this information	1:
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2 3 4 5 6 7	BY MR. HALPER: Q (Continuing) isn't that right? A Could be. MR. HALPER: No further questions right now. MR. MONTGOMERY: Okay. It really is just a couple.	2 3 4 5 6 7	editors why we chose to inform them only of the six month analyses and not the longer term data that were available to us when we submitted the manuscript. We submitted only this information because the authors believed the six month data were the most scientifically and clinically	1:
2 3 4 5 6 7 8	BY MR. HALPER: Q (Continuing) isn't that right? A Could be. MR. HALPER: No further questions right now. MR. MONTGOMERY: Okay. It really is just a couple. REDIRECT EXAMINATION	2 3 4 5 6 7 8	editors why we chose to inform them only of the six month analyses and not the longer term data that were available to us when we submitted the manuscript. We submitted only this information because the authors believed the six month data were the most scientifically and clinically valid. The data after six months were so	1:
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2 3 4 5 6 7 8 9 10	BY MR. HALPER: Q (Continuing) isn't that right? A Could be. MR. HALPER: No further questions right now. MR. MONTGOMERY: Okay. It really is just a couple. REDIRECT EXAMINATION BY MR. MONTGOMERY: Q Okay, Exhibit 3, the JAMA article that you were just talking about, do you have that?	2 3 4 5 6 7 8 9 10	editors why we chose to inform them only of the six month analyses and not the longer term data that were available to us when we submitted the manuscript. We submitted only this information because the authors believed the six month data were the most scientifically and clinically valid. The data after six months were so confounded as to be difficult to interpret for assessing a drug-related causal GI toxicity."	1:
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Pharmacia None Page 189 - 192

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	193			195
1	just read into the record not fully forthright?	1	me, I've been up a long time.	
2	A I don't like and I'm not alone in	2	I can't remember what about if	
3	this amongst the JAMA editors "we acknowledge	3	there was something odd about the statistical	
4	that we could have avoided confusion." We didn't	4	analysis, and I just can't remember now. I	
5	just goof, we kept from you important	5	haven't looked this up again.	
6	information.	6	Q And when you said "those" in your	
7	"Because the authors believe the six	7	previous answer, were you referring to the items	
8	month data," et cetera, "the data after six	8	listed on the second page of Exhibit 42?	
9	months was so confounded as to be difficult to	9	A Right, right.	
10	interpret." Our job is to interpret data. We	10	Q Okay, I just have a couple questions	
11	found that offensive. I found it offensive,	11	about the book that you were talking about	
12	rather. I don't	12	earlier. Is it correct that you said you have	
13	Q Is there any other reason that you	13	published a book concerning how to conduct	
14	found this explanation insufficient?	14	clinical trials?	
15	A Well, I've already said that we're	15	A No, not how to conduct them. I'd	
16	dealing with drugs that are taken by old crocks	16	never do that because I'm not the expert, and I	
17	who can't do their buttons up, myself, for	17	know a bunch of people who've written them. In	
18	example, and so that means years. And so it's a	18	fact, I stayed last week with one of them.	
19	very serious matter when you halve the length of	19	But on the how to most doctors,	
20	a trial. I find it inadequate.	20	like about 99%, can't interpret a study at all,	
21	Q And just to make sure I understand	21	and this book is how to interpret every sort of	
22	what you just said, is that because the people	22	study, put yourself in control of the stuff you	
23	taking the medications will often be taking it,	23	can't understand.	
24	Celebrex in this case	24	Q I see.	
	194			196
1	A Well, look it	1	A And that's why it's called The Users	
2	Q for longer than six months?	2	Guides, and it's now become very fat and very	
3	A Now, I'm just saying I'm saying	3	popular.	
4	this, that it's always problematic and sponsors	4	MR. NELSON: But you haven't made a penny	
5	have the manufacturers have a tremendously	5	out of it.	
6	difficult problem here, how long to do a trial	6	THE WITNESS: But you've made tons of money	
7	and in who.	7	from it.	
8	And it's very important for a trial	8	MR. NELSON: There we go.	
9	like this we're not talking about the	9	BY MR. MONTGOMERY:	
10	immediate results of somebody who's had a	10	Q Is it generally directed towards	
11	myocardial infarct, a heart attack. We're	11	clinicians?	
12	talking about something that they'll have to take	12	A Yes. The idea is to for physicians	
13	for years if it's any good. With luck, it will	13	to to take control of to understand what it	
14	be. So it really matters if people take it six	14	is they're reading because this is sophisticated	
15	months in the trial or a year in the trial. So	15	stuff, some of it. It should be.	
16	that's a problem that I thought made this all	16	Q And do you have any idea how many	
17	worse, and I wasn't alone in that.	17	copies of the book have been distributed?	
18	Q Did you have any other reasons for	18	A I don't know, about 40,000 or	
19	finding this explanation insufficient?	19	something like that. I mean it's not that great.	
20	A Well, I spread out they should have	20	Q And is it has it been issued	
21	dealt with all those (indicating), I think, but I	21	through JAMA?	
22	haven't checked off to find out if they were	22	A No, it was issued through the AMA	
23	laughing and for the trial duration of	23	Press. The publisher's going to that's so	
24	the I can't remember what it was, and forgive	24	it's had zero publi zero now, you asked	
		1		

Pharmacia None Page 193 - 196

			214111110114, 11011110 1710/2001	
	197			199
1	zero publicity. It's just sold itself.	1	STATE OF ILLINOIS)	
2	MR. MONTGOMERY: All right, I have no	2) ss: COUNTY OF C O O K)	
3	further questions.	3		
4	MR. HALPER: No questions.	4	I, Deborah Habian, a Certified Shorthand Reporter within and for the State of	
5	MR. NELSON: I have no questions.	_	Illinois, do hereby certify:	
6	MR. MONTGOMERY: We will end the deposition	5	That previous to the commencement of the	
7	at this time.	6	examination of the witness, the witness was duly	
8	THE VIDEOGRAPHER: This is the end of the	7	sworn to testify the whole truth concerning the matters herein;	
9	deposition. This is the end of Tape 5. The time	8	That the foregoing deposition was reported	
10	is 6:26 p.m. The running time of this tape is	9	stenographically by me, was thereafter reduced to printed transcript by me, and constitutes a true	
	· · · · · · · · · · · · · · · · · · ·	10	record of the testimony given and the proceedings had:	
11	28 minutes and 57 seconds.	11	That the said deposition was taken before	
12	WHEREUPON, FURTHER DEPONENT SAYETH NOT	12	me at the time and place specified;	
13			That the reading and signing by the	
14		13	witness of the deposition transcript was agreed upon as stated herein;	
15		14		
16		15	That I am not a relative or employee of attorney or counsel, nor a relative or	
17			employee of such attorney or counsel for any of	
18		16	the parties hereto, nor interested directly or indirectly in	
19		17	the outcome of this action. IN WITNESS WHEREOF, I do hereunto set my	
20		18	hand this day of, 2007.	
21		19 20		
22		21		
23		22	DEBORAH HABIAN, CSR, RMR, CRR Notary Public	
24		23	CSR No. 084-022432	
		24		
	198			
1	IN THE UNITED STATES DISTRICT COURT			
2	DISTRICT OF NEW JERSEY			
3 4	ALASKA ELECTRICAL PENSION FUND,)			
5	et. al.,) Plaintiffs,)			
6	vs.) No. 03-1519			
7	PHARMACIA CORPORATION, et. al.,)			
8	Defendants.)			
9				
10				
11	I hereby certify that I have read the			
12	foregoing transcript of my deposition given at			
13	the time and place aforesaid, consisting of pages 1 to 197, inclusive, and I do again subscribe and			
15	make oath that the same is a true, correct, and			
16	complete transcript of my deposition so given as			
17	aforesaid and includes changes, if any, so made			
18	by me.			
19				
20				
	DR. DRUMMOND RENNIE			
21	SUBSCRIBED AND SWORN TO			
22	before me this day			
	of, A.D			
23				
24	Notary Public			

Pharmacia None Page 197 - 199

EXHIBIT 11

From: LEFKOWITH, JAMES B. [PHR/1825] Sent: Friday, September 08, 2000 8:56 AM

To: ARBE, EMILIO [PHR/5430] Subject: RE: CLASS Data

Emilio-

I think that it might be a good idea for you to discuss your concerns with me directly before making any more statements regarding the issues that concern you. I believe that you do not fully understand the data and the analysis.

Jim Lefkowith

---Original Message----

From: ARBE, EMILIO [PHR/5430]

Sent: Friday, September 08, 2000 6:57 AM

To: SHIELD, MICHAEL J [PHR/5430]; JADERBERG, MAGNUS [PNU/GBMKEPO1];

FORREST, DAVID IPNU/GBMKEPO11

Co: LEFKOWITH, JAMES B. [PHR/1825]; HAMELIN, PAUL R. [/1820].

Subject: RE: CLASS Data

The results I quote are lifted from the study report. I will double-check that all the figures are correct and I haven't made any gross misinterpretations. Emilio

----Original Message----

From: SHIELD, MICHAEL J [PHR/5430] Sent: Thursday, September 07, 2000 8:23 AM

To: JADERBERG, MAGNUS [PNU/GBMKEPO1]; FORREST, DAVID [PNU/GBMKEPO1]

Cc: LEFKOWITH, JAMES B. [PHR/1825]; HAMELIN, PAUL R. [/1820]; ARBE,

EMILIO [PHR/5430] Subject: RE: CLASS Data EXHIBIT

28

1.12.07 OS

Magnus.

I haven't seen these data presented in this way before so I cannot judge properly the validity of what Emilio is stating. I would agree that the analyses reported in JAMA are not exactly as stated in the original protocol. There are though I understand from the R&D group good reasons for what has been done. In my notes from the presentation made here last week by Jim Lefkowith I see that he used the term "refined" as applied to the subsequent data analyses. The six months issue, as explained by Jim was to set a point which all patients had completed (taking into account earlier withdrawals up to that time). I don't know whether you were at the EULAR conference(June 2000) but if you were and attended the Searle/Pfizer symposium then you would have heard the considerable debate there was re what constituted "intent-to-treat". In a true "intent-to-treat" there is actually a need to follow-up ALL patients for the ENTIRE treatment period (whatever period is defined) whether or not they have withdrawn from the original test medications. In practice this is rarely done and these debates about "intent-to-treat" are largely semantic ones. In the real world one wants to know, beyond reasonable doubt, whether or not a treatment produces a desired effect and whether or not there are undesirable effects of any consequence.

Emilio's statements that there are no differences between Celebrex and the comparator NSAIDs re serious GI events I find somewhat surprising, and as indicated above I haven't seen the data portrayed in this way before. From what I have seen I am satisfied that in the non-aspirin group (which comprises almost 80% of the patients treated and which is comparable to the VIGOR study in the sense that patients in the Merck study did not use aspirin, except by protocol violation)

that we have a statistically significant outcome for Celebrex versus Ibuprofen and Diclofenac. When combining the results for both NSAIDs one does not see statistically significant differences for Celebrex vs NSAID in the apsirin taking population. My only comments about that are twofold. First, that is what one would expect in that Celebrex doesn't have any protective effect against aspirin (unlike say the misoprostol component in Arthrotec) so I would expect to see exactly the same sort of result in takers of a drug like paracetamol which as far as we know is non-GI damaging. The second point is that I believe our data is actually better than we have currently

presented in the public domain in that when one looks at the separate NSAIDs there is a greater GI-event rate on diclo+aspirin than on celebrex+ aspirin. This, I believe, is readily explicable in terms of the differing pharmacodynamic effects of celebrex and diclofenac on platelet function (beneficial towards Celebrex). This, though, I am happy to set to one side as the R&D folks have done to save unduly complicating the message, though in doing so we do lose to some extent a potential advantageous point.

Consequently in summary re the GI event rates everything I have seen demonstrates, to me at least, that we have clear separation of celebrex from diclo and ibuprofen. The Kaplan-Maier plots which take into account differential exposure times show that very elegantly.

Re the tolerability profile I think it has to be stressed, from the outset, that the CLASS study was never intended to be other than a study to focus on whether or not the drug retained COX-2 specificity CLINICALLY and to demonstrate that it was decided (in fact demanded by the FDA) that twice the maximum therapeutic dose should be used. Consequently if one does obtain reasonable tolerability at this dose that in itself would be remarkable given that no NSAID can be used at twice its maximum therapeutic dose without causing SEVERE intolerance (e.g what tolerability profile would you expect to see at 300mg/day of diclofenac). Consequently an overall GI symptom profile for Celebrex 800mg/day which was unquestionably better (statistically so) than diclofenac at 150mg/day and which was virtually the same seen with ibuprofen has I think to be regarded as a good result. Additionally re both diclo and ibuprofen Celebrex demonstrated, at this dose, a better profile re biochemistry (LFTs and renal)and on BP and on potential to cause anaemia as detected by Hb changes.

Emilio's point re rash really singles out one item that is very readily dismissed. To take the incidence of rash in the CLASS study as an indicator of tolerability appears to me to be erroneous for the following reasons. As pointed out in the original Integrated Safety Summary (ISS) prepared for registration submissions by R&D (page 332, document N49-98-07-819) and as is reflected in the "Skin" adverse events section (p243/4) of the "Celecoxib Clinical Summary" which I wrote for the EU submission, celecoxib demonstrates a dose-related increase in rash. This is distinct from the LACK of dose response seen, with celecoxib, as far as I am aware, for any other adverse event. The ISS on page 332 states: "There was an increase in incidence of rash at higher celecoxib doses, with the maximal incidence of 3.4% associated with the 400mg BID dose, thus suggesting a dose-response relationship". Emilio certainly has access to, and I thought had seen, both of these documents. If the mechanism, which as yet is unknown, is exposure-duration related then obviously in longer studies at high dose (above the therapeutic dose currently recommended) the incidence will increase. As pointed out above, the CLASS study was not there to examine the overall side effect profile of celecoxib. That was very satisfactorily done in the registration studies. The findings re rash in the CLASS study merely confirm what we already know about the product. I have no hesitation in recommending that on this basis we can focus on the GI-event rates from CLASS without having to focus on the other findings for the reasons stated. The TOLERABILITY PROFILE and other ADE profile from the extensive database we have at theraputic doses is perfectly satisfactory, and in fact is better than the CLASS data, for our medical & marketing colleagues to use to demonstrate our superiority over NSAIDs. (I made the latter point at last week's UK marketing meeting with Jim Lefkowith).

I am a great believer in such discussion points being out in the open and also in encouraging people to raise their issues so that they can be addressed. Consequently I think it is only fair that Jim Lefkowith should have the opportunity to see and respond to Emilio's points since Jim has lived with and breathed the CLASS data over the past several months and has seen the data in much greater depth than me - hence I have copied Jim on this reply to you Magnus. In that way hopefully we can focus on the facts and see exactly where the truth lies. I would hope that in this process discussion can be held without any parties personalising the discussion. A lack of objectivity is always dangerous.

Regards Michael

——Original Message—— From: JADERBERG, MAGNUS [PNU/GBMKEPO1] Sent: 07 September 2000 05:01

To: SHIELD, MICHAEL J [PHR/5430]; FORREST, DAVID [PNU/GBMKEPO1]

Subject: CLASS Data

Please see Emilio's comments below - any comments from Michael who has followed this study from the beginning?

The rest of us have a lot to catch up on and so not that easy to advice Emilio although it is clearly of concern to hear someone on 'the inside' express these views.

Magnus

	Forward Header	•	

Subject: CLASS Data

Author: EMILIO ARBE at Exchange

Date: 04/09/2000 10:19

Dear Magnus,

Since you brought up the subject this morning, here is what I think about CLASS. The study was set out to demonstrate that based on a withdrawal rate of up to 35%, patients would experience clinically significant UGI adverse evens at a rate of 0.3% per year with SC-58635 and 1.2% per year with NSAIDs as a group. The protocol did not specify that the endpoint would be assessed at 6 months only. An interim analysis was planned, but this was only to make sure that enough events had occurred so that the differences would be statistically significant by the end of the study, which was 12 months.

There are several flaws in the way that we present the data. We claim that we cannot compare the groups at 12 months because the drop out rate was so much higher in the diclofenac group. In fact at 26.5 % it was lower than expected and not that different from celecoxib with 22.4% and ibuprofen 23%. The fotal number of events required, which was 37, was actually met as there were 38 in total, 17 with celcoxib, 10 with diclofenac and 11 with ibuprofen. Considering that twice as many patients had been treated with celecoxib, this equated to annual rates of 0.43%, 0.50% and 0.55% percent. None of the differences were statistically significant. If one looks at the subset of patients who did not take aspirin, which we so much publicise, the rates were 0.26%, 0.26% and 0.64%, again with no statistically significant differences.

With a bit of data massage, what Steve Geis and his team have done is to focus on the 6 month data, for no other reason that it happens to look better, and this time they concentrate on the non aspirin treated patients, and ignore the fact that at no time interval did we see a statistically significant difference with diclofenac, whether one looks at patients taking aspirin or not, at 6 or at 12 months. Unfortunately, UK doctors would only be interested in looking at the rate of GI events with diclofenac since such a high dose of ibuprofen is rarely used.

In terms of tolerability the results are also disappointed, in that the rates of withdrawal due to dyspepsia were 3.8%, 4.4% and 3.9% for celebrex, diclofenac and ibuprofen. To top up the lot we had a 6.2% of rash, which was statistically significantly greater to that seen for the diclofenac and ibuprofen groups. So much for our delivering lasting control in arthritis claim based on improved tolerability and safety profiles.

In my opinion though, these results do not say much about Celebrex used at therapeutic doses, and hence our interest in collecting some more meaningful data through a SAMM study. Probably then, the annual complication rate is 0.3%

as expected and there is probably a tolerability advantage as seen in the Emery study, celebrex 200 mg bid vs diclofenac 75 mg bid over 6 months in RA.

The point I am trying to make though is that I don't see what is so great about CLASS. Personnally I find it bizarre that we would want to roll out the data to opinion leaders who aren't necessarily dupe and I wouldn't feel too comfortable presenting a fudged version of the facts. Any guidance from your side is of course welcome.

Kind regards,

Emilio

EXHIBIT 12

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 481 of 550 PageID: 8115

From:

Wahba, Mona M

Sent:

Tuesday, May 22, 2001 5:17 PM

To:

Cristo, Stephen

Subject:

CBX-0234902_FW: CLASS manuscripts for review: Urgent attention required

Importance:

High

Follow Up Flag:

Follow up

Due By:

Monday, May 21, 2001 12:00 PM

Flag Status:

Flagged







CBX-0234903_CELECBX-0234904_COX-CBX-0234905_CLAS
COXIB CV ver2.... 2 Inhibitor Up... S manuscript 2...

fyi

----Original Message----

From: Wahba, Mona M

Sent: Monday, May 21, 2001 2:03 PM

To: Denton, James; Harris, Andrew; Silber, Beth Ann; Pettitt, Dan; Sirota, Eric; Bahrt, Kenneth; Shafner, Lori S; Fletcher, Mark P; Cary, Meg; Gavigan, Michael; Gandelman, Mitchell; McElwee, Newell Subject: FW: CLASS manuscripts for review: Urgent attention required Importance: High

Dear All,

Please see my comments attached, i'd recommend to refer to the conclusions of the second attachment in the CVS ms.

In my opinion, the GI ms is apologetic, weak and not convincing, since cx did not show statistical difference from Diclo even using the combined endpoint. We are also cherry picking the data (using 6 m as study duration).

There is a need to sharpen the story around the effect of GI withdrawals in the diclo group and the effect of ASA as a confounding factor on the expanded endpoint if we decide to publish this ms.

Do we have the newly created tables supporting these 2 ms to QA the #s?

Mona M. Wahba, M.D.

Pfizer Global Research and Development

Office: 860 441 8950 Mobile: 860 625 9356 Fax: 860 715 8463

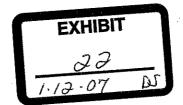
<mailto:mona_m_wahba@groton.pfizer.com>

----Original Message----

From: Denton, James

Sent: Sunday, May 20, 2001 5:36 PM

To: Sadosky, Alesia; Byer, Alicia; Harris, Andrew; Silber, Beth Ann; Prestel, Betina; Pettitt, Dan; Nickerson, David F; Alemayehu, Demissie; Shapiro, Elyse R; Sirota, Eric; Lee, Fleur; Ancona, Frank; Cawkwell, Gail; Lymburner, Jeffrey; Plofchan, Jennifer N; Goldman, Jonathan; Dicker, Joy; Bahrt, Kenneth; Levy, Lisa; Shafner, Lori S; Fletcher, Mark P; Horn, Mark; Cary, Meg; Gavigan, Michael; Gandelman, Mitchell; Wahba, Mona M; McElwee, Newell; Sobel, Rachel; Reynolds, Robert; Nelson,



Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 482 of 550 PageID:

Rooney; Miller, Tina; Quinn, Tricia; Leishman, Valarie Subject: FW: CLASS manuscripts for review: Urgent attention required

Please forward comments to Beth and me by Wednesday May 23.

----Original Message----

From: Cornick, David [mailto:dcornick@hbase.com]

Sent: Thursday, May 17, 2001 4:01 AM To: Fort, John; Denton, James; 'Tim Walbert' Cc: Markind, Jan E; 'Jim Lefkowith'; Donovan, Dan

Subject: CLASS manuscripts for review: Urgent attention required

Importance: High

Dear All,

Please find attached two draft CLASS manuscripts (GI and CV) from Jim Lefkowith's group. I would appreciate it if you could review the documents and return your comments to Jan Markind and I by Thursday 24th at the latest.

Jim, I would very much appreciate it if you could consolidate all the comments into one e-mail prior to returning them to Jan and I. Many thanks for your help.

Look forward to hearing from you all in due course

Regards

Dave Cornick Editorial Leader PPS International Communications Phone +44 (0)1903 288131 +44 (0)1903 282707 E-mail: dcornick@hbase.com

----Original Message----

From: MARKIND, JAN E [GPB/1820] [mailto:jan.e.markind@pharmacia.com

<mailto:jan.e.markind@pharmacia.com>]

Sent: 17 May 2001 02:20

To: 'Cornick, David'

Subject: FW: Importance: High

Dave,

Please send out for review to Jim Denton, John Fort, and Tim Walbert. Please ask Pfizer to consolidate all comments for each manuscript into 1 Please use the abstracts from these as we discussed; alter as e-mail. needed.

Thanks,

----Original Message----

Case 3:03-cv-01519-AET-TJB Document 328-3 Filed 03/02/12 Page 483 of 550 PageID: 8117

From: LEFKOWITH, JAMES B. [PHR/1825] Sent: Wednesday, May 16, 2001 8:56 AM

To: MARKIND, JAN E [GPB/1820]

Subject:

JanPlease distribute these draft copies to the Publication Team. I would like to limit the review process to 7 business days.
JL

EXHIBIT 13

September 29, 2010

i	mber 29, 2010
1	3
IN THE UNITED STATES DISTRICT COURT 1 APPEARANCES CONT	INUED
FOR THE DISTRICT OF NEW JERSEY 2 3 For the Defendants:	
4 JOSHUA R. WEISS	
ALASKA ELECTRICAL PENSION FUND,) Cadwalader, Wickershal	m & Taft LLP
5 One World Financial Ce	
New York, New York, 10	0281
Plaintiff) Case No. 6 (212) 504-6225	
(212) 504-6666 Fax	
vs.) 03-15-19 7 joshua.weiss@cwt.com	
Also Present:	
PHARMACIA CORP., et al., 10 Steve Ewing, Videograp	her
, 11	
Defendants.) EXAMINATION INDEX	(
13	DACENO
EXAMINATION BY:	PAGE NO.
MR. MONTGOMERY	7
l 15 MR. WEISS	228
VIDEOTAPED DEPOSITION OF FRED SILVERSTEIN, M.D. MR. MONTGOMERY	252
September 29, 2010 16	
Seattle, Washington EXHIBIT INDEX	
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CCR No. 2631 24	0
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1 APPEARANCES 2 1 EXHIBIT INDEX CONTIN	NUED 4
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3 For the Plaintiffs: EXHIBIT NO. DESCRIPTION	PAGE NO.
4 MATTHEW MONTGOMERY 3 Scott & Scott LLP 3 Exhibit 195 Income from Searle/Pt	harmacia Bates
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9 Motley Rice LLC 28 Bridgeside Boulevard 10 Mt. Pleasant, South Carolina 29464 (843) 216-9061 11 (843) 216-9440 Fax Ioliver@motleyrice.com 12 13 For the Witness: 14 JEFFREY J. BUSHOFSKY Ropes & Gray LLP 15 46th Floor 111 South Wacker Drive 16 (312) 845-1200 17 (312) 845-5500 Fax 18 JEFREY J. BUSHOFSKY 19 Exhibit 199 e-mail, Bates Nos. DE 10 Exhibit 200 e-mail, Bates Nos. DE 11 Tough 00124206 Exhibit 201 Comments on January Committee Rehearsal, Bate DEFS 00392205 through 0 18 Exhibit 202 e-mail with attachment DEFS 00392205 through 0	the NSAIDs orostol - From ottice 42 chments, Bates ugh 03835816 149 FS 00390944 149 FS 00124205 154 / 9 Class Advisory es Nos. 00656587 191 t, Bates Nos. 00392246 192
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September 29, 2010

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	5		7
1	EXHIBIT INDEX CONTINUED	1 Rice for the plaintiffs.	
2	EXHIBIT NO. DESCRIPTION PAGE NO.	2 MR. WEISS: Josh Weiss, Cadwalader,	
3	27.11.21.11.01.	3 Wickersham & Taft for the defendants.	
4	Exhibit 207 Rational for Publishing the CLASS 6	4 MS. McPHEE: Joan McPhee for Dr. Fred	
	Month Data, Bates Nos. Silverstein	5 Silverstein.	
5	00115 through 00123 210	6 MR. BUSHOFSKY: And Jeff Bushofsky from	
6 7	Exhibit 208 e-mail, Bates No. Silverstein 00077 213 Exhibit 209 handwritten notes, Bates Nos.	7 Ropes & Gray also for the witness.	
,	Silverstein 00090 through 00094 214	8	
8	, and the second	9 FRED SILVERSTEIN, M.D., having been first duly sworn,	
	Exhibit 210 Letter, Bates Nos. Silverstein 00128	10 deposed and testified as	
9	through 00134 215	11 follows:	
10	Exhibit 211 Handwritten Notes, Bates Nos. Silverstein 00124 through 00127 219	12	
11	Silversteil 00 124 tillough 00 121 219	13 EXAMINATION	
	Exhibit 212 Handwritten Notes, Bates Nos.	14 BY MR. MONTGOMERY:	
12	Silverstein 00080 through 00082 224	15 Q. Could you state your name and home address for the record,	
13		16 please?	
14	WITNESS INSTRUCTED NOT TO ANSWER	17 A. Fred Eli Silverstein. My home address is 1246 15th Avenue	
15 16	(None)		
17	(None)		
18	INFORMATION REQUESTED		
19		20 A. I have not.	
20	(None)	21 Q. Okay. In that case I'll run over a few ground rules.	
21 22		22 A. Thank you.	
23		Q. I'm going to ask you a series of questions which hopefully	
24		you'll be able to answer. The attorneys over here may	
25		interpose objections so if they make an objection just wait	
	6		8
1	BE IT REMEMBERED that on Wednesday,	for their objection to get on the record and unless your	
2	September 29, 2010, at 1700 Seventh Avenue, Suite 2200,	2 counsel tells you not to answer the question you can then	
3	Seattle, Washington, at 9:00 a.m., before Connie Recob, CCR,	answer the question.	
4	RMR, CRR, CLR, appeared FRED SILVERSTEIN, M.D., the witness	4 It's important that we don't talk over each other	
5	herein;	because the court reporter here has to type everything we say	
6	WHEREUPON, the following proceedings were	and she can't type two people speaking at the same time.	
7	had, to wit:	7 Also, it's important that you answer all the questions	
8		8 verbally; nodding or uh-huh, huh-uh doesn't translate to the	
9	<<<<< >>>>>	9 record very well but I'll try and remind you and attorneys	
10		10 may as well.	
11	THE VIDEOGRAPHER: This is Tape No. 1 to	ls there any reason such as illness or medication that	
12	the videotaped deposition of Dr. Fred Silverstein in the	you can't give your best testimony today?	
13	matter of Alaska Electrical Pension Fund versus Pharmacia	13 A. No.	
14	Corporation, being heard before the U.S. District Court for	14 Q. All right. I'd like to go over some definitions that will	
15	the District of New Jersey, Case File No. 03-15-19 (AEI).	hopefully make the rest of the day go more smoothly. Are you	
16	This deposition is being held at Tousley Brain Stephens, 1700	16 familiar with a drug called celecoxib?	
17	Seventh Avenue, Suite 2200, Seattle, Washington 98101.	17 A. I am.	
18	Today's date is September 29th, 2010 and the time is 9:00.	18 Q. And is that also called Celebrex?	
19	My name is Steve Ewing and I am the videographer. The	19 A. It is.	
20	court reporter is Connie Recob. Counsel, will you please	20 Q. All right. Are you familiar with a clinical study called	
21	introduce yourselves and affiliations and the witness can be	21 CLASS, C-L-A-S-S?	
22	sworn.	22 A. Iam.	
23	MR. MONTGOMERY: Matt Montgomery for the	23 Q. And is that also known as Celecoxib Long-Term Arthritis	
24	plaintiffs.	24 Safety Study?	
	MR. OLIVER: Lance Oliver with Motley		
25	IVIN. OLIVEN. LATICE OTIVET WITH MOTIEY	25 A. It is.	



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September 29, 2010

1	Q. Are you comfortable using the initials GI to refer to
2	gastrointestinal?
_	

- 4 Q. Okay. Are you familiar with nonsteroidal anti-inflammatory
- 5 drugs?
- 7 Q. And are those also referred to as NSAIDs?
- 8 A. That's correct.
- 9 Q. Are you familiar with the Journal of the American Medical
- 10 Association?
- 11 A. I am.
- 12 Q. Is that also sometimes referred to as JAMA?
- 13 A. It is
- 14 Q. Are you familiar with a term called "Clinically Significant
- 15 Upper Gastrointestinal Events"?
- 16 A. Yes
- 17 Q. And are those sometimes referred to as CSUGIEs?
- 18 A. Yes.
- 19 Q. How do you pronounce it?
- 20 A. Well, I don't use that expression. I prefer to use
- 21 "significant upper GI events." Some people use that acronym
- and it's not one that I use or am comfortable with. So that
- one I'd like to avoid and use words.
- 24 Q. Sure. That's what I'm trying to do this for.
- 25 A. Right.

1

- Q. So what are you comfortable with again?
- 2 A. Upper GI adverse event, upper GI bleed, upper GI perforation,
- you know, a little bit more specific. CSUGIEs is kind of a
- 4 folky acronym that I don't use.
- Q. When you say upper GI event, is that the same as a
- 6 perforation obstruction and bleed or bleed?
- 7 A. No, not necessarily. In the upper GI tract you can have a
- significant complication which is usually a bleed, a
- 9 perforation or obstruction, but you can also have a
- significant event which is not a complication but which is,
- for example, a symptomatic ulcer, so somebody who will tell
- you they have belly pain and they're endoscoped or have an
- x-ray and they're found to have an ulcer.
- So generally complications are considered to be
- bleeding, perforation or obstruction, and the other
- significant event in that realm would be a symptomatic ulcer.
- $\,$ 17 $\,$ Q. Okay. So can we -- is there a distinction between ulcer
- complications and a symptomatic ulcer then?
- 19 A. Yes, there is. I would say there is.
- 20 Q. And are you comfortable with that terminology?
- 21 A. Yes, I am.
- 22 Q. Okay.
- MR. MONTGOMERY: I'd like to ask the
- court reporter to mark what will be Exhibit 191.
- 25 ////

(Exhibit No. 191 marked

- for identification.)
- 3 Q. (BY MR. MONTGOMERY) Have you seen Exhibit 191 before?
- 4 A. I believe I have.
- 5 Q. And is it your understanding this is a depo subpoena -- I'm
 - sorry -- a deposition subpoena?
- 7 A. Yes.

1

- 8 Q. Is it your understanding you're here today pursuant to this
- 9 subpoena?
- 10 A. Yes
- 11 Q. You can just put that to the side. What we're going to do
- today, as I give you these, you can just stack them up here.
- 13 A. Okav.
- 14 Q. There may be some exhibits that I'm going to refer to again
- later so I'll let you know that and you can maybe put them in
- a different pile so that they're easier to get.
- 17 A. Okay. Fair enough.
- 18 MR. MONTGOMERY: At this point I'd like
- to ask the court reporter to mark what will be Exhibit 192.
 - (Exhibit No. 192 marked
 - for identification.)
- 22 Q. (BY MR. MONTGOMERY) Is Exhibit 192 a copy of your CV or
- 23 curriculum vitae?
- 24 A. That's correct.
- 25 Q. And is it the most current version?

10

1 A. It is.

20

21

- 2 Q. And are you currently employed?
- 3 A. I am not. I'm retired.
- 4 Q. Okay. Do you do any consulting?
- 5 A. I do.
- 6 Q. And do you do any consulting for Pfizer?
- 7 A. I do not.
- 8 Q. Have you done any consulting for Pfizer since you retired?
- 9 A. No, I have not. I retired in about 2005 and I haven't done
- any consulting for Pfizer since about 2001.
- 11 Q. Are you at this point in any talks or negotiations to do
- consulting with Pfizer in the future?
- 13 A. No.
- 14 Q. Okay. Would you turn to Bates No. Silverstein 00623 in
- Exhibit 192? Do you know what Bates numbers are?
- 16 A. No.
- Q. They're just the page numbers in the lower right-hand corner.
- 18 A. Okay.
- Q. Do you see No. 147 on that page?
- 20 A. I do.
- Q. And does that refer to an article you coauthored that was
- 22 published in JAMA?
- 23 A. I did.
- Q. And can we refer to that for the purposes of the deposition
- 25 as the JAMA article?



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September 29, 2010

14 A. I'm not positive but I think that is the case. 15 Q. And after the date of this agreement —welf, first of all 16 the date of this agreement is December 31st, 1983; is that 17 correct? 18 A. That's correct. 19 Q. After this agreement did you enter into — subsequently enter 20 into a series of consulting agreements with Searle over the 21 years? 22 A. Yes. 23 MR. MONTGOMERY: I'd like to ask the 24 court reporter to mark what will be Exhibit 194. Hold on one 25 second. 10 (Exhibit No. 194 marked 26 for identification.) 3 MR. WEISS: Is this two exhibits? 4 MR. MONTGOMERY: I'm sorry. There was an 5 issue with the copier. I gave you the ones I was trying to 6 get rid of. 7 Q. (BY MR. MONTGOMERY) is Exhibit 194 a consulting agreement 8 between you and Pharmacia dated February 1st, 2002? 9 A. Yes. 10 Q. Is it your understanding that at some point Searle was 11 acquired by Pharmacia? 12 A. Yes. 13 Q. And after the date of this agreement is December 31st, 1983; is that 15 part of the subposen a levent back through all of my records, and the spent hours going through - old tax files is where I found 11 this, and attempted to summarize the information I had about 12 tremuneration I received from Searle and/or Pharmacia from 19 1995 through 2004, and 2004 could be 2010 because there's 19 been no change. It's been zero since 2002. And this is a 19 summary of what I could find. 19 Wow, in — about two months ago I was asked to go 10 through things again and I did it again and in a 11 miscellaneous file that I hadn't looked at previously, of 22 course I'm talking about carrions and cartons of tax files, I 23 found some additional data. But nothing that changes any of 24 this, it's just background or backup information. There was 25 no, to my knowledge, significant new information. 26 A. That's correct. 27 Q. Okay. Let's just run through this then. 28 So in 1995 is it your understanding you received any 29 somewhat more than \$35,000 from Searle? 20 A. Yes. 21 A. That's correct. 21 A. That's correct. 22 In 1995 did you eve	гтес	i Silverstein		September 29, 2010
2 Q. Okay. 3 MR. MONTGOMERY: It like to ask the court reporter to mark what will be Exhibit 193. 4 Court reporter to mark what will be Exhibit 193. 5 (Exhibit No. 193 marked 6 for for identification.) 7 Q. (BY MR. MONTGOMERY) and is Exhibit 193 a consulting agreement between yourself and Searle? 9 A. That's correct. 10 Q. And Searle is a pharmaceutical company? 11 A. That's correct. 12 Q. Is this the first consulting agreement that you think you is remarked to to ask the court reporter to mark what will be Exhibit 193. 12 C. Is this the first consulting agreement that you think you is remarked into with Searle? 13 A. I'm not positive but I think that is the case. 14 A. I'm not positive but I think that is the case. 15 Courter? 16 Courter? 17 D. A. I'm not positive but I think that is the case. 18 A. That's correct. 19 Q. A. Are this agreement is December 31st, 1983, is that correct. 19 Q. Are this agreement did you enter into - subsequently enter into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the into a sense of consulting agreements with Searle over the court reporter to mark what will be Exhibit 194. Hold on one second. 10 A. Although the searle searle searle search into a sense of consulting agreements with Searle over the second search into a sense of consulting agreements with Searle over the second search into a search of consulting agreements with Searle over the second search into a search of consulting agreements with Searle over the second search into a search of consulting agreements with Searle over the second search into a search of consulting agreements with Search over the search into a search of consulting agreements with search of consulting agreement search into a search of consulting agreements		13		19
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court reporter to mark what will be <u>Enhibit 183.</u> Court reporter to mark what will be <u>Enhibit 183.</u> Court reporter to mark what will be <u>Enhibit 183.</u> a consulting agreement to be tween yourself and Seafer? Court R. MONTGOMERY) And is <u>Enhibit 193.</u> a consulting agreement to between yourself and Seafer? Court R. MONTGOMERY) And is <u>Enhibit 193.</u> a consulting agreement to directly with Prizer, as far as I remember. Court R. M. MONTGOMERY And is <u>Enhibit 193.</u> a consulting agreement to directly with Prizer, as far as I remember. Court R. M. MONTGOMERY And this point follow to ask the court reporter to mark what will be <u>Enhibit 195.</u> Court R. M. MONTGOMERY Court R. M. M. MONTGOMERY Court R. M. M. M. MONTGOMERY Court R. M.	2	Q. Okay.	2	A. I did not.
Section 1	3	MR. MONTGOMERY: I'd like to ask the	3	Q. After the acquisition did you enter into a consulting
6 (BY MRI. MONTGOMERY) And is <u>Exhibit 193</u> a consulting agreement between yourself and Searle? 7 A Thart correct. 8 A Thart correct. 8 A Thart correct. 9 A Thart correct. 10 A And Searle is a pharmaceutical company? 11 A Thart correct. 12 List his the first consulting agreement that you think you are referred into with Searle? 13 A Thart correct. 14 A I'm not positive but I think that is the case. 15 A And after the date of this agreement - well, first of all the date of this agreement is December 31st, 1983; is that correct? 16 A Thart correct. 17 Correct? 18 A Thart correct. 19 C. After this agreement is December 31st, 1983; is that the date of this agreement is December 31st, 1983; is that the date of this agreement did you enter into - subsequently enter into a series of consulting agreements with Searle over the court reporter to mark what will be <u>Exhibit 194</u> . Hold on one series of consulting agreement with Searle over the case. 16 A Thart correct. 17 Correct? 18 A Yes. 19 Court reporter to mark what will be <u>Exhibit 194</u> . Hold on one series of consulting agreement with Searle over the court reporter to mark what will be <u>Exhibit 195</u> . Hold on one series of consulting agreement with Searle over the court reporter to mark what will be <u>Exhibit 194</u> . Hold on one correct? 19 Co. (BY MR. MONTGOMERY: I'd like to ask the court reporter to mark what will be <u>Exhibit 194</u> . Hold on one correct the supponent livent back through all of my records, spent nours going through — old tax files is where I found this, and attempted to summarize the information in this, and attempted to summarize the information freelived from Searle 2 to remuneration in received from this, and attempted to summarize the information in this, and attempted to summarize the information in this, and attempted to summarize the information in this and attempte	4	court reporter to mark what will be Exhibit 193.	4	relationship with Pfizer?
7 Q. (BY MR. MONTGOMERY) And is <u>Exhibit 193</u> a consulting agreement between yourself and Searle? 8 A That's correct. 9 A That's correct. 10 Q. And Searle is a pharmaceutical company? 11 A That's correct. 12 Q. Is this the first consulting agreement that you think you 13 entered into with Searle? 14 A. I'm not positive but I think that is the case. 15 Q. And after the date of this agreement is December 31st, 1983; is that 16 the date of this agreement is December 31st, 1983; is that 17 correct? 18 A. That's correct. 19 Q. After this agreement is December 31st, 1983; is that 19 Q. After this agreement did you enter into - subsequently enter 19 Q. After this agreement with Searle over the 20 into a series of consulting agreements with Searle over the 21 years? 22 A. Yes. 23 MR. MONTGOMERY: I'd like to ask the 24 count reporter to mark what will be <u>Exhibit 194</u> . Hold on one 25 second. 26 Pharmacia and I did not enter into a consulting agreement 27 disable that the date of this agreement with Searle over the 28 second. 27 Department of the date of this agreement and office the final or consulting agreement of direct with Plaze at a far as I remember. 28 In the date of this agreement with searle over the 19 Count reporter to mark what will be exhibit 195. 29 A. Yes. 20 A. Yes. 21 A. I'm the process of providing information that was requested as part of the supponent ivent back through all of my records a part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part of the supponent ivent back through all of my records and part or identification. 3 MR. MONTGOMERY: I'd like to ask the 22 been no change. It's been zero since 2002. And this is a summary of what I could find. 4 (Exhibit No. 194 marke	5	(Exhibit No. 193 marked	5	A. I don't remember. I think that this to the best of my
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	18		18	Q. Okay. In 1999 you received somewhat more than \$64,000 from
1	19		19	Searle?
20 don't know if there were any others with Pharmacia and 20 A. That's correct.	20		20	A. That's correct.
	21		21	Q. In 2000 you received \$75,000 from either Searle or Pharmacia?
22 Q. Is it your understanding that at some point Pharmacia was 22 A. That's correct.			1	-
23 acquired by Pfizer? 23 Q. And what is the	23		1	
24 A. That's correct. 24 A. Expenses. I just had a separate note that I had \$6,167 for	24		24	A. Expenses. I just had a separate note that I had \$6,167 for
25 Q. Prior to that acquisition did you do any consulting work for 25 expenses.	25	Q. Prior to that acquisition did you do any consulting work for	25	



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expenses, right?

A. That's correct.

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September 29, 2010

Q. And that's in addition to the 75 --A In addition to the \$75,000 Q. It's important that you let me finish my question before you A. Excuse me. 5 Q. I appreciate your willingness to answer, though. Okay. In 2001 it's your understanding you received slightly more than \$12,000 from Searle or Pharmacia? 9 A. That's correct 10 Q. And then beneath that it says 87,000. Do you see that? A. Yes, that's correct Q. And what does that refer to? 12 A. It's also compensation I received in 2001. And I don't know 13 14 whether the 87,000 encompassed the 12,000. I am not clear. I'm not sure about that. But I wanted to report both of them 15 because that's what my records had that I received. 16 Q. Okay. So in 2001 you either received \$87,000 from Searle --17 18 Q. -- or Pharmacia, or a little bit more than 99,000; is that 19 right? 2.0 A. That's correct. 21 Q. And that's in addition to 65 -- somewhat more than \$6.500 in

the nonsteroidal anti-inflammatory drugs interfered with the production of a class of hormones called prostaglandins in the wall of the stomach and duodenum. And Andre Robert was one of the first scientists to show that the protection of the gastrointestinal tract against the formation of ulcers is remediated by prostaglandins and the way it does that is by increasing mucosal blood flow which allows the stomach to get rid of the acid, absorb the acid, by producing mucus which protected the stomach wall and the duodenal wall, and a couple of other mechanisms

So the question was, if you added this prostaglandin, I believe it's prostaglandin E2 drug, misoprostol, to nonsteroidal anti-inflammatory drugs, if you could change the incidence of complications. And this addresses an important part of this whole topic which is how do you study this type of complication. It's easy enough to say that you should do this in 8800 patients which is what this study was done in, but that's a very, very expensive study. And so you can imagine, I mean I have no idea what it costs, but it probably costs \$20 million to run a study like this. So there were considerations, including at the FDA, which I attended, on how to design a study, what kind of surrogate markers you

In other words, if you said, Well, if you're going to get an ulcer, then you could get an ulcer complication. So

1 Pharmacia or Pfizer? A. That's correct. 2 Q. Okay. 3 MR. MONTGOMERY: At this point I'd like to ask the court reporter to mark what will be Exhibit 199 --I'm sorry; Exhibit 196. 6 7 (Exhibit No. 196 marked 8 for identification.) 9 Q. (BY MR. MONTGOMERY) Is Exhibit 196 an article that you co-authored that was published in the Annals of Internal 10 Medicine on August 15th, 1995? 11 12 A. It is. Q. And what does this article describe, generally speaking? 13 14 A. This is, to my knowledge, the first large clinical trial 15 which examined the question of the ability to change the incidence of upper gastrointestinal complications in patients 16 with arthritis, in this case rheumatoid arthritis, taking 17 nonsteroidal anti-inflammatory drugs. 18

What had happened was between about the years 1985 and

1990, in that range, there became an increasing appreciation

that ulcers and ulcer complications in patients were related

to these drugs called nonsteroidal anti-inflammatory drugs of

which there are approximately 20 to 25 different drugs, and

it had been found out through work of a person named Andre

Robert who at the time worked for Searle, that it seemed like

Q. And since 2001 you've received no money from Searle,

if you don't have an ulcer, you're not going to get a complication, so maybe instead of studying complications you can study ulcers. And the reason that's important is that in people on nonsteroidal anti-inflammatory drugs they have about a 20 percent incidence of ulcers, so 100 people, 20 of them is going to get an ulcer, but only one of them is going to get an ulcer complication. So if it's 20 out of 100 you could improve on that if you got it down to let's say 10 out of 100 or five out of 100 with a study in 200 people. But if you want to look at the actual complication which is a one percent incidence and you want to improve on that, it has to be a very large trial.

And that's why this trial was 8800 patients, it was

almost 9 000 patients. And it -- I believe the FDA wanted

did not want a surrogate like just an ulcer or even before an

Searle at the time to do sort of this ultimate trial. They

ulcer, an erosion. They wanted the actual proof about a

complicated ulcer with bleeding obstruction, perforation. And so this trial was undertaken in a large group of people by a large group of physicians, 660 physicians, 8800 patients, and the design of the trial was to take 10 --(Interruption.)

THE WITNESS: It was to take 8800 patients and -- with rheumatoid arthritis, which is one type of arthritis, but these people have very bad arthritis and



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1	need these drugs to maintain function	. But we're taking one
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- of 10 NSAIDs, so this was a scala of NSAIDs, and then they 2
- were randomized to either taking misoprostol with the NSAID
- or no misoprostol with the NSAID. And then we examined the 4
- incidence of the complications. And what was shown in this 5
- study was that the complications occurred in approximately
- one percent of patients, which is what we knew. In fact, the
- FDA in all of the nonsteroidal drugs in the warning section
- 9 reports that there's a one to two percent incidence -- well.
- 10 that the incidence of a GI complication and/or a symptomatic
- 11 ulcer is three to four percent or two to four percent, and
- the incidence of a complication is approximately one percent. 12
- 13 And that's in fact what we found in this paper, that in the
- 14 people who were randomized to placebo with the NSAID there
- was about a one percent incidence of complication. I think 15
- it was .9 percent. And with the Misoprostol, it reduced that 16
- 17 to about .5 percent, a 40 percent reduction which was
- statistically significant at a P value of .049, just 18
- 19 below .05 which was the cut off for significance
 - So in fact, to my knowledge, this was the first large randomized prospective trial, not a metaanalysis or, you
 - know, a compilation of other studies, that actually directly
- 22 examined patients with arthritis taking nonsteroidal drugs 2.3
- and whether you could reduce the incidence of these serious, 24
- potentially life-threatening complications by adding a 25
 - prostaglandin to their nonsteroidal drugs, and it was
- 2 positive.

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- Q. So what is Misoprostol? 3
- A. So Misoprostol is a prostaglandin E1 analog. That's a type
- of prostaglandin. There are approximately 25 different
- prostaglandins in the bodies and they affect all the organs 6
- 7 in the body. Misoprostol is one of these prostaglandins, and
- 8 it's known to affect the upper gastrointestinal tract with,
- as I said, increased mucous production, increased blood flow 9
- to the lining of the stomach, and to be associated with 10
- 11 increased resistance of the stomach wall to ulceration caused
- 12 by nonsteroidal agents presumably through the COX-1
- 13
- Q. (BY MR. MONTGOMERY) So would it be fair, simply put, that 14
- 15 Misoprostol counteracts some of the negative effects in the
- GI tract of the NSAIDs? 16
- A. Yes, in the upper GI tract. We didn't actually study the 17
- effects which have come up recently as interesting, the 18
- effects of these drugs on the small bowel and colon which 19
- 20 also have effects, but this was really looking at the upper
- 21
- Q. Okay. I'd like you to take a look on the first page on 22
- 23 Exhibit 196
- 24 A. Right
- 25 Q. The second bullet says Design; do you see that?

1 A. Yes.

- Q. I'm just going to read it into the record. It says, "Design
- six-month randomized double blind placebo controlled trial." 3
- Do you see that?
- 5 A. I do.
- Q. Is that an accurate description? 6
- Q. And I'm sorry; going back a step. This whole study that 8
- 9 Exhibit 196 discusses, is that also referred to as the mucosa
- 10 study?
- 11 A. It is.
- Q. Okay. Is the language that I just read into the record an 12
- accurate description of the mucosa trial? 13
- 14
- 15 Q. What does it mean to say it's a six-month trial in that
- description? 16
- 17 A. The patients were on the trial for six months unless they
- were taken off the trial for an adverse event, I believe, or 18
- 19 of course for noncompliance or some other thing happening to
- 20 the patient. That's why not all the patients who were -- I'm
- trying to remember how many patients actually made it through 21
- 22 this trial, but it wasn't the full 8800 for a variety of
- 23
- 2.4 Q. So unless a patient withdrew they were given either an NSAID
- 25 plus placebo or an NSAID plus Misoprostol for six months; is

that right? A. That's correct. 2

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- Q. And then after six months they weren't given either drug
- anymore; is that right?
- A. That's correct.
- Q. Was there follow up after six months?
- A. I don't remember. If you'll give me one moment to...
- A. I don't believe so. I mean patients of course were followed 9
- because you're concerned about a patient who might have a 10
- complication right at the end of the study, but the study 11
- 12 lasted six months.
- Q. And did patients enroll in the study on a rolling basis?
- A. I don't understand the question. 14
- 15 Q. Sure. Maybe I'll ask the reverse.
- Did every single patient in the study start taking the 16
- drug on the same day? 17
- A. No, that would be impossible. These were in a whole bunch of 18
- family practice -- family practices in North America, so the 19
- 20 United States and Canada; to be specific, 664 practices. And
- 21 you need that volume of practice so that each practice can
- enroll approximately 12 patients so that you have -- well, 14 22
- 23 patients so you will have approximately 9,000 patients at the
- 24 end of it. So it required that if each practice was
- enrolling 14 patients, they would wait until a patient with 25



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1	rheumatoid	arthritis	came	in who	met t	the	entry	criteria	and

- they would enroll -- and if that patient agreed to it with
- 3 informed consent they would then enroll that patient in the
- 4 study.
- 5 Q. So even though it's described here as a six-month trial, the
- actual conduct of the trial presumably took somewhat longer
- 7 than six months?
- 8 A. That's correct. I believe it took two years.
- 9 Q. All right. Going back to Exhibit 196, the same -- on the
- first page, do you see the bullet point in the first column
- 11 that says Results?
- 12 A. Yes, I do.
- 13 Q. And does that bullet describe in summary the results of the
- 14 study?
- 15 A. It does.
- Q. Were those results for the full six months of the study?
- 17 A. Yes
- 18 Q. Do you know, in this paper, Exhibit 196, did you ever analyze
- any time period other than six months of data?
- 20 A. Not that I recall.
- 21 Q. Outside of the paper, when you got the results of the study,
- did you ever analyze the results for any time period other
- 23 than six months?
- 24 A. Not that I recall.
- 25 Q. Why not?

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- 26
- A. The study was designed to be a six-month study. We got data
- 2 in patients over a six-month period for each patient and
- 3 that's what we analyzed.
- Q. So before you performed the mucosa study, did you have a plan
- for how you were going to analyze the results once you got
- 6 them?
- 7 A. Yes.
- 8 Q. And did that include analyzing the results for six months?
- 9 A. Yes.
- 10 Q. And you followed that plan once you got the results?
- 11 A. Yes.
- 12 Q. All right. Still on the first page of Exhibit 196, on the
- right-hand column, the second paragraph that starts General
- Physicians; do you see that?
- 15 A. I do.
- 16 Q. I'd like you to take a look at the last sentence in that
- paragraph. I'm going to read it into the record. It says,
- "Life-threatening events such as perforations or serious
- 19 hemorrhage from NSAID induced ulcers which also develop with
- little or no warning are a real problem because of the many
- 21 patients at risk."
- Do you see that?
- 23 A. I do.
- Q. And was that true at the time this article was published?
- 25 A. I would say that were I to write it again, I might be a

- little bit more specific about the "little or no warning,"
- because in fact I think that -- I think that patients who
- 3 develop NSAID induced ulcers are likely to have antecedent
 - symptoms. So I think "little or no warning" is a little bit
- 5 vague. In other words, if I have an ulcer and if I'm
 - symptomatic, I have -- you're my physician and I go in to see
- you and I say, I'm taking the drug you gave me but I'm not
- feeling well, I have pain here (indicating), that would be a
- symptom, you might endoscope me and see an ulcer.
- The fact that I was about to develop a massive
- hemorrhage or a perforation might not give you -- it might
- not be warning of that until the event occurred. So I think
 - that from my knowledge most patients who develop an upper GI
- ulcer complication are in fact symptomatic, not all of them,
- but somewhere between 50 and 95 percent from the literature
- of patients who develop a complicated ulcer are in fact
- symptomatic, but going from the complicated ulcer to the
- perforation or hemorrhage may occur without any other warning
 - that it's going to happen other than the event occurring
 - itself.
- 21 And I did -- as part of this question about who's
- bleeding, I just want to give you a touch of background. I
- spent eight years, so 1973 to 1981, looking at the question
 - as to whether an endoscopist who's looking into somebody's
- stomach and who sees an ulcer and who sees bleeding from the
- ulcer can treat that ulcer right then and there and stop the
 - bleeding. I did it in association with an engineer who's now
 - fairly famous named David Off and he and I ran an NIH funded
 group that examined various methods of stopping the bleeding,
 - and that included lasers and heat and cooling and even
 - 6 cyanoacrylate glue and electrocautery, et cetera. We
 - 7 developed models of bleeding, so this is hands-on, first
 - 8 person experience in upper gastrointestinal bleeding. We
 - 9 developed models -- because the people before that were using
 - different models and different therapies. They didn't even
 - know how much therapy was being applied and so we tried to
 - get control over that by, No. 1, understanding the treatment
 - method, and No. 2, understanding the bleeding model.
 - 14 And we in fact did invent, if you will, two devices
 - 15 which are still used today in patients with bleeding to
 - control the bleeding. But in my reading at the end of that
 - period of time, so this is 10 years of my life almost, at the
 - reading of the end of that time and we wrote 35 papers or so,
 - peer-reviewed papers about the different things we studied,
 - 20 it became clear to me that we had this problem of who was
 - $21\,$ bleeding and who was at risk. And it goes back to what I
 - said awhile ago about this issue about surrogate markers, you
 - know, how do you know? I mean if you want to study
 mortality -- now, we talked about 100 patients, 20 of them
 - will get an ulcer. One percent will have a complication.

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September 29, 2010

But if you have an ulcer complication, one in 10 of those
people will die. But if you look at the numbers then, it's a
thousand patients take the drug, 200 get an ulcer, that's
20 percent, 10 get a complication, that's one percent, and
one will die.
So if you think it's difficult to design a trial that
looks at a complication, it's that much more difficult to

looks at a complication, it's that much more difficult to design a trial that looks at mortality, which is really in some ways one of the most important -- one of the most important things to look at.

So in the study -- I did another study then in which I

So in the study — I did another study then in which I worked with the American Society for Gastrointestinal Endoscopy which resulted in four papers, which are in my curriculum vitae, in 1982, in which we looked at 2200 patients from 250 doctors and we looked at them prospectively so that means that we did go back and say, Hey, in your practice in the last five how many bleeders have you seen? We didn't do it that way. We rather asked each physician participating to give us a prospective entry of a patient with upper gastrointestinal bleeding, and we produced what I would say was an unbelievable amount of data.

We had six full pages of data on 2200 patients and every one was carefully examined. And I had a wonderful, very compulsive assistant who sent back about 95 percent of

the forms to doctors to get it more completely filled out.

30

So in that study, it produced a huge amount of data. I sometimes refer to it as almost a soapstone, piece of stone data, and the question was what carvings would you make from that? What would you examine?

approximately 25 percent were from a duodenal ulcer, 25 percent were from a gastric ulcer. 20 percent were from erosive disease, which is sort of an early ulcer, it's very shallow, and the other 30 percent were other lesions like esophageal varices which are dilated veins, or Osler-Weber-Rendu which are little bleeding spots, little bleeding spots in the stomach.

And in that data the patients with bleeding,

And also in that study 50 percent of the patients had antecedent symptoms. So if you just say that 50 percent of patients in this study had antecedent symptoms, I believe -- although I did not study this at the time, I didn't ask the technician and the statisticians to look at this -- that of half of the patients who bled from ulcers, either the stomach or duodenum, that these were in fact symptomatic patients. At least 50 percent of them were symptomatic.

And then there are articles by other people like
Michael Langman and several other authors, Peter Cotton I
believe, looking at the same question, showing 70 or
90 percent of patients presenting with an upper GI bleed as
being symptomatic.

So I know I digressed a bit but I think it's important to establish my feeling about the fact that if you give

people NSAIDs a lot of them get symptoms. 40 percent of

4 people on these drugs get symptoms. But only a very small

5 number of those go on and get a complication. And if you

6 look at the complications and look back the other way, then I

think that in fact most or a significant portion of people

with complications have had symptoms, and therefore if you

9 were to eliminate patients with symptoms you would be

eliminating a lot of the patients who go on to develop

11 complications

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that sentence you asked me about, I think "with little or no warning" means that you may have stomach upset and I may be treating you with antacids or histamine two receptive blocker while you're talking the drug, the nonsteroidal drug, but the person who's going to come in and suddenly develop a perforation or vomit blood, we don't know that until it

So I would just say in retrospect now when looking at

occurs, and I think that's what that sentence meant.

Q. Okay. So approximately how many people that go on to
 experience ulcer complications have GI symptoms first?

22 A. That's a good question and I don't know the exact answer but
23 I would say it was somewhere between 50 and 90 percent from

the literature and from my own study where we looked at it

and found that people with gastric ulcer and duodenal ulcer

were 50 percent of patients, and 50 percent of patients had

symptoms. And the other diagnoses often don't have symptoms.

3 For example, esophageal varices, dilated veins in the

4 esophagus, do not present with symptoms of an ulcer. So I

think that most of the patients with ulcers had symptoms but

6 I can't give you that exact number.

7 Q. Somewhere between 50 and 90 percent?

8 A. That's correct.

9 Q. Okay. And did you have that information at the time you

10 wrote <u>Exhibit 196</u> in 1995?

11 A. Well, yes, I did. Some of it. I had -- certainly I had my

own studies which were done 10 years before that. So I had a

large portion of this information, yes.

 $\,$ 14 $\,$ Q. All right. And at this time -- well, let me ask it a

15 different way.

12

16

Are patients who suffer GI symptoms more likely to

17 later on develop ulcer complications?

18 A. You know, that's a fair question but it's not precise enough.

19 More likely than what?

 $20\,$ $\,$ Q. Oh, okay. More likely -- let me ask it again then.

21 Are patients who are taking these NSAIDs who experience 22 GI symptoms more likely to develop ulcer complications than

the same sorts of patients who don't experience GI symptoms?

A. I would say that's probably true, yes.

25 Q. Okav. And why do you say that?

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1	A.	Well, because	want to go back again to this que	stion
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- about the surrogate marker. So in other words, if we were
- 3 together and we were designing a trial now, somebody might
- say, Well, let's do this trial with the fewest patients we
- can. I mean that's a given. Because you don't want to put
- patients through a trial if you don't have to. From an
- ethical standpoint you want to do a study with as few
- patients as you can. So somebody might say, Well, you know,
- 9 death. Well, death, you're going to have to study 90,000
- patients. A complication, 8,000 patients. So death is a
- tenth of a percent. A complication is one percent. A
- complication and symptomatic ulcers is four percent.
 - Symptoms of 50 percent, 40 percent.
- So I think if you take 100 people on nonsteroidal
- agents, about 50 percent of them, 40 percent of them get
- symptoms. But I don't think having symptoms predicts that
- you're going to have a complication. I think it's too large
- a group. It's an order of magnitude more people than are the
- people that actually develop these things. So I think what
- 20 we're saying is -- what I'm saying is, if you have 100 people
- and 50 of them are going to get symptoms and 50 don't, you
- can't tell. You can't use symptoms as a surrogate marker,
- you've got to go further down the chain. You've got to
- either find an ulcer at endoscopy, have symptomatic ulcer or
- actually have a complication or have mortality.
 - So we have to go back to your question again. Does the
- 2 presence of symptoms increase an increased likelihood of
- having a complication? I think the answer is yes, but it's
- still not very indicative because so many people get symptoms
- 5 who don't develop a complication and nobody knows why -- to
- 6 my knowledge, nobody knows why these people get symptoms. It
- may be because of damage. It may be a cerebral effect. Some
- of these drugs may have what's called a central effect,
- 9 producing nausea or pain. It may be an effect on motility
- which means the way your intestine contracts, that may give
- you some symptoms, and it may be damage further down the GI
- tract. Which is I think an important factor with
- nonsteroidal incidence is injury to the stomach and duodenum
- $_{\rm 14}$ $\,$ but equally injury to the small bowel and colon.
- So symptoms by themselves I don't think are terribly
- 16 helpful.
- 17 Q. Okay
- 18 A. Does that make sense?
- 19 Q. Yes. I'm just going to have to follow up a little bit.
- 20 So just to clarify, you believe that GI symptoms are --
- 21 I'm sorry. Patients taking NSAIDs that suffer GI symptoms
- are somewhat more likely to develop ulcer complications than
- patients that don't?
- 24 A. I believe that, yes.
- 25 Q. Okay. How much more likely?

- 1 A. I don't think I can quantify that because if you have 100
- people and 50 get symptoms and 50 don't, of the people that
- get the symptoms it's still only one percent that get a
- complication. So it's very hard -- you know, I don't know.
- It's a fair question but I don't know the answer to that. I
- 6 don't know that anybody has ever -- I know that other papers
- 7 that I have reviewed, and I don't know if they're in the --
- in the literature or in this paper, but reported that up to
- 90 percent of people with ulcers had symptoms but it -- it
- tells you that, it doesn't tell you the reverse. It doesn't
- tell you if you have symptoms versus not have symptoms the
- likelihood of getting an ulcer or an ulcer complication.
 - And I think part of the problem, part of the problem
- with this whole field is you're looking at orders of
 - magnitude of numbers and that's why you have to use so many
- patients. I mean nobody in their right mind would do a study
- in 9,000 patients if you didn't have to. The reason we did
- these studies, the mucosa study, the CLASS study, the CONDOR
 - study, the Vioxx study, was in order to improve on one
- 20 percent you have to have a lot of patients. So I'm sorry; I
- don't think I can answer it coming in symptoms versus no
- 22 symptoms but I can answer it on the other side that most of
- the people with complications have had symptoms.
- Q. Okay. Let's go back to the time period 1995 when you wrote
- 25 this paper. At that point did you believe that people --

- patients taking NSAIDs who suffered GI symptoms were more
- 2 likely to suffer GI complications than patients who didn't
- 3 suffer symptoms?
- 4 A. It's 15 years ago but I believe I would answer that yes.
- 5 Q. Okay. Now, we're talking about the mucosa trial right now.
- 6 In that trial did some patients withdraw because of GI
- 7 symptoms?
- 8 A. I don't remember. I'd have to go back and look at the -- at
- 9 what happened. I'm sure --
- 10 Q. All right. Let's take a look at Page 245 of Exhibit 196.
- 11 A. Yeah, okay.
- 12 Q. Do you want to take a look at it for a sec?
- 13 A. Right.
- Q. Let me know when you're -- you've had a chance to review it.
- 15 A. Specifically -- what specifically?
- 16 Q. Table 2. I'm sorry.
- 17 A. Table 2, okay. (Witness complies.) Okay.
- 18 Q. All right. Does Table 2 set forth the reasons for premature
- withdrawal from the mucosa study?
- 20 A. Yes.
- Q. All right. And does it indicate that some of the patients
- that withdrew from the study did so because of GI symptoms?
- 23 A. It does
- 24 Q. And which of these adverse events would you characterize as
- 25 Gl symptoms?



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1	A. Well, under the category of Adverse Events they are all GI
2	symptoms.

- Q. Okay. And -- I'm sorry. In Table 2 of Exhibit 196 there's a
- column for the Misoprostol group; do you see that?
- Q. And is that patients that were taking NSAIDs plus
- Misoprostol?
- A. Yes.
- Q. All right. And the other column says Placebo Group. Is that 9
- patients who were taking NSAIDs and a placebo? 10
- 11 A. Yes
- Q. Okay. Now, just looking at -- comparing the reasons for 12
- 13 withdrawal of the Misoprostol group from the placebo group,
- 14 does it appear that more patients withdrew because of GI
- symptoms from the Misoprostol group than from the placebo 15
- 16 group?
- A. It does 17
- 18 Q. Okay. If patients who suffer GI symptoms are more likely to
- go on to suffer ulcer complications, wouldn't the 19
- differential withdrawal set forth in Table 2 bias the results 20
- 21 of the study?

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- 22 A. Well, before I answer that I want to make an observation.
- Misoprostol causes some of these events. Misoprostol is 2.3
- known to cause stomach upset. That's one of the drawbacks to 24
- my knowledge of the drug, it is not as well tolerated as 25
- 38
- other drugs. So I think some of these are a direct effect of
- the Misoprostol and not necessarily a symptom caused by early 2
- development of an ulcer in the stomach or duodenum.
- Q. It's -- I'm sorry. Go ahead.
 - A. So it's difficult to separate those. I would have to -- you
- know, for example, diarrhea, which was a large component of 6
- 7 the patients who withdrew and -- much more diarrhea occurred
- in the Misoprostol group than in the placebo group, that is
- to my knowledge an effect directly of the Misoprostol, a side 9 effect of the Misoprostol, having nothing to do with damage 10
- to the stomach or duodenum that would present as ulcer 11
 - symptom.
 - Diarrhea -- you asked if it was a GI symptom and the
- 14 answer is ves. If you want to know if it's an ulcer symptom.
- 15 the answer is no. It's not an ulcer symptom. It's a symptom
- of increased motility of the colon producing liquid stools. 16
- So that makes this a little bit more difficult in the 17
- 18 sense -- and nausea or flatulence, passing excessive gas,
- which again was more positive in the Misoprostol group, is 19
- 20 not a sign of ulcer disease, it's a sign of the same
- 21 increased motility in the colon and that's a direct effect of
- 22 the Misoprostol
- 23 So I think that these adverse events are different than
- 24 the adverse events that would be noted in a straight NSAID
 - trial because the Misoprostol produces these motility side

- effects. Which did cause the patient to come off the trial.
- 2. I mean you would say, Yeah, well, these patients did come off
- the trial, but they came off because of side effects of the 3
 - Misoprostol in my opinion, not because they were
- developing -- for example, the abdominal pain which also can 5
 - be Misoprostol, there was much less of a difference than in
- something like the diarrhea which there was a huge
 - difference. You know, there was more than a two-fold, almost
 - a three-fold increase in the Misoprostol group, whereas in
- the abdominal pain there was just a 30 percent increase.
- And dyspepsia, which means a sour stomach, you know, 11
- 12 sort of -- dyspepsia means a burning sensation here -- and
- 13 that's one of the typical symptoms of an ulcer also can be
- 14 from Misoprostol but if you look at that you'll see that it 15 went from 180 to 200. And I think that the big difference in
- these groups were in the GI side effects that are directly 16
- 17
 - attributable to the Misoprostol on GI motility.
- Q. Is there any way -- well, let me ask it a different way: 18
- 19 Some of the people that withdrew for GI events in the
- 20 Misoprostol group -- strike that guestion
- 21 Is there any way to determine which of the people in
- 22 the Misoprostol group withdrew because of adverse GI events
- 23 caused by the Misoprostol as opposed to caused by the NSAID?
- 2.4 A. That's a very fair question and I don't think there is. It's
- 25 a logical question because from what I'm saying you have side
- effects from Misoprostol which have nothing to do with the 1
 - NSAID and then -- and so, for example, in a trial like the 2
 - PPI trial, PPI is a proton pump inhibitor, they pretty well 3
 - 4 tolerate it. They don't have many sides effects. So there
 - 5 you can say, Well, you know, you can't say it was due -- to
 - my knowledge. I mean when the PPIs first came out we all 6
 - 7 worried with them because they shut off gastric acid so
 - 8 profoundly. Or an H2 blocker like cimetidine. They don't
 - have much in the way of side effects. 9
 - So whether you're taking an H2 blocker or not, I don't 10
 - think you can tell unless you had something like heartburn 11
 - 12 which got better. But that's not true of Misoprostol.
 - 13 Misoprostol does have more systemic effects than the two
 - 14 agents that are used to control gastric acid, the two classes
 - 15 of agents, H2 blockers and proton pump inhibitors
 - So although your question is a good question, I don't 16
 - 17 think there's any way to do that from this, and at the time
 - it didn't seem -- that question didn't occur to us. It's 18
 - 19 always different when you look at these studies in retrospect
 - 20 than when we're actually up to elbows in the data
 - 21 prospectively.

23

- Q. Okay. So going back to Table 2, Exhibit 196, just to 2.2
 - confirm, more people withdrew from the Misoprostol group
- 24 because of GI symptoms, correct?
- A. That is correct. 25

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ſ		4	11			43
1	1	Q. At the time that you got these results for the mucosa trial,		1	so it's not far off. I was just reporting that other studies	
1	2	did that cause you any concern then that the results of the		2	have reported a higher and perhaps since then have	
1	3	study might have been biased by that differential withdrawal?		3	reported a higher incidence of symptoms in patients with	
1	4	A. You know, it didn't, and I think the reason it didn't was the		4	ulcers, but what you just read to me reported that 58 percent	
1	5	nature of the reasons for the withdrawal. In other words,		5	did first presented with the complication and the	
1	6	diarrhea, it's like I know they're going to get diarrhea.		6	corollary of that is 42 percent had symptoms.	
١	7	First of all, patients get diarrhea, that's in the placebo		7	And the other thing I would mention is that I think	
١	8	group, but the fact that there was so much more diarrhea in		8	there are symptoms and there are symptoms, meaning that it	
1	9	the Misoprostol group is more attributable these		9	depends on how the person is asked about the symptoms. When	
١	10	prostaglandin have effects throughout the body. They affect		10	a patient comes in with an upper GI bleed, they're vomiting	
١	11	every body tissue. And they do produce these effects like		11	blood, they've got bloody stools, they're in shock. The	
١	12	the motility of the colon.		12	history from that patient I don't think is as reproducible	
١	13	So I don't remember thinking about that specifically,		13	necessarily as the history taken in this room if we were	
١	14	but I would have done what I just did which is write the		14	sitting here and I asked you, Have you got any symptoms? So	
١	15	symptoms off the difference in the symptoms off in large		15	I'm always a little bit suspect, I don't mean in an evil way,	
١	16	part to the effect of Misoprostol on the gut and not that we		16	I just I'm not as comfortable with the broad category of	
١	17	were taking patients out of the trial who were more		17	symptoms prior to a big event because the big event is such a	
١	18	susceptible to developing an ulcer.		18	catastrophic event that the patient then, you know, I don't	
١	19	Q. By the way, I didn't mention it in our prologue but if you		19	know, I don't know. Look, I'm just, you know. And it may	
١	20	ever want to take a break for any reason		20	not be so in other words, if they reported 58 percent	
١	21	A. Thank you.		21	didn't have symptoms, I think I would trend to say that would	
١	22	Q let me know and we'll usually follow up whatever question		22	be high. I think most of them did have symptoms, more than	
١	23	we're on and then we can go off the record. So any time you		23	42 percent. But it's not far off of what I reported from the	
١	24	need it.		24	study that I did.	
١	25	A. Okay. Thank you.		25	Of interest, just to plus I feel like saying it I	
ı			+			
١			12		was the grown and a state of the fact that	44
١	1	MR. MONTGOMERY: I'd like to ask the		1	guess, this paper goes on and talks about the fact that	
١	2	court reporter to mark what will be Exhibit 197.		2	Helicobacter pylori has now emerged as at this point. You	
١	3	(<u>Exhibit No. 197</u> marked		3	know, we're working on the chronology of understanding what's	
١	4	for identification.)		4	happening, this is 1998. I think it was 1995 when there was	
١	5	Q. (BY MR. MONTGOMERY) Is Exhibit 197 an article you published		5	an NIH consensus conference chaired by Dr. Yamada which	
١	6	in Digestive Diseases and Science in March of 1998?		6	addressed the question of what causes ulcers. And when I	
١	7	A. It is.		7	went to medical school at Columbia in 1963 we were taught it	
١	8	Q. Would you turn to the second page of Exhibit 197, please.		8	was stress, and some people still think that unbelievably.	
١	9	A. (Witness complies.)		9	What has emerged is that there are two causes of ulcers,	
١	10	Q. In the right-hand column on that page, about halfway down the		10	nonsteroidal anti-inflammatory disease and Helicobacter	
١	11	page I'd like to read something into the record. "58 percent		11	pylori.	
١	12	of patients admitted to the hospital with life-threatening		12	MR. WEISS: You might want to slow down	
١	13	complications associated with NSAID ulcers, the first		13	and say the name of that bug again for the court reporter.	
١	14	evidence of gastrointestinal disease was the complication		14	THE WITNESS: Excuse me. H pylori. H,	
١	15	itself."		15	P-Y-L-O-R-I.	
١	16	Do you see that?		16	So by the time I wrote this I was saying that about	
	17	A. Yes.		17	half of all ulcers are caused by NSAIDs, and mind you, I	
	18	Q. How is that consistent with what you were saying before that		18	think there were 90 drugs I found that had aspirin in it,	
	19	50 to 90 percent of people are symptomatic before suffering a		19	many of which the patients didn't know contained aspirin like	

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21 A. Right. Well, if you look at the flip side of what you just

said, 42 percent of patients admitted to the hospital with a

threat did have some other warning. And remember, I said

ASGE, the national society, it was 50 percent or 47 percent,

that in my study that I did of the 2200 patients for the

GI complication?

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222s and Excedrin Plus, I mean all these different types of

drugs that had aspirin. That accounts for about 50 percent

of ulcers, and Helicobacter pylori accounts for 50 percent of

So in the evolution of our knowledge of ulcer disease,

by this point, by '98 we had learned that half of the ulcers

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September 29, 2010

1 were H pylori which is a bug you can pick up and which is treatable with antibiotics, it was a huge advance in our 2 knowledge of ulcer disease. And the guy who figured it out was an Australian fellow named Barry Marshall who took H 4 5 pylori himself, nobody would believe him so he swallowed it himself and he got sick. And he then demonstrated that it was a direct effect. He didn't get an ulcer but aside from that everything was perfect. He got really sick. And he won 9 the Nobel prize for that, so this was a serious 1.0 accomplishment So he single-handedly, against all the establishment of 11 gastroenterology, showed that H pylori was a significant 12

So he single-handedly, against all the establishment of gastroenterology, showed that H pylori was a significant agent. And in 1995 the consensus conference at the NIH, which was three days, hundreds of people were there, 18 of us were on the panel, considered whether H pylori was a major cause of ulcer disease and concluded that it was and really changed the approach to ulcer disease from a pathophysiology standpoint in that we now knew that a lot of ulcers of course were H pylori which were treatable with antibiotics, which was fabulous. So now we were left with the other half which were NSAIDs, so it continued the focus on NSAIDs and how could you make NSAIDs less injurious.

Q. So did Dr. Marshall win the Nobel prize for medicine or

1 produce erosions, ulcerations, eventually ulcer 2. complications. So the hypothesis that was being developed at. I believe it was Barnes University where Dr. Needleman 3 was working and I guess there were other people working in the field as well, was that there were two classes of drugs 5 6 regarding their effect on the Cox enzymes, drugs that affected both and drugs that just affected COX-2. And so the hypothesis was, if you only affected COX-2 to decrease the 8 9 inflammation by decreasing that enzyme, but you didn't change to COX-1 which was the protective mechanism, that you might 10 11 then have less of an injurious effect on the upper GI tract. So that was the -- sort of the overall hypothesis going 12 into the trial. 13

(David Goldberger enters.)

THE WITNESS: Now, what comes up again now is how do you prove that? Which is what I've been talking about as a recurring theme this morning is this issue about how do you model that. Now, ultimately you would say, Let's look at mortality. I mean, you know, My mother is going on the drug, I want to know if she's at risk for dying. Well, I've told you to do that, you're probably at 90,000 patients, because it's a piece of a piece of a piece of this. So then you could back up and say, Okay, we can't really do mortality, unless you use the study I did in the '80s and said, Hey, the real mortality is in people with liver disease

institute. He's got his own institute and it was -- it was an interesting thing that he did that.

A. Yes. He won it actually for medicine and he started an

Q. So were you involved in the design of the CLASS study?

A. You know, I was not. To my recollection I was not involved

in the design of the CLASS trial. It was designed before I

was asked to participate. Again, that was 14 years ago

and -- but to the best of my knowledge early on I was not

involved.

bravery?

9 Q. All right. Do you know what the purpose of the CLASS study

10 was?

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11 A. I do.

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12 Q. And what was that?

3 A. So the purpose of the CLASS trial was to examine the

hypothesis that if you took a drug which was a mostly

selective COX-2 inhibitor that had antiarthritic effects,

that you would produce less injury to the GI tract than a

standard NSAID which had both COX-1 and COX-2 effects. So

let's go back and explain what that means.

There seemed to be two effects, deleterious or -- two effects of NSAIDs and related drugs on the GI tract. One is to decrease COX-1, and COX-1 is psycho oxygenates which produces the prostaglandins which are helpful to the stomach and duodenum. They help protect the stomach and duodenum, so you would like to allow that to continue happening. COX-2 are the -- are -- produces the inflammatory chemicals that

who are over 60. I mean the purpose of those studies that I did in the late '70s and early '80s was to really be able to define who was at really increased risk.

But the more you start to narrow a study, the more you start to cut in on the study, kind of less applicable it is.

This will come up later in terms of other parts of the Cox -- of the CLASS and other trials. In other words, if you say it's only in women, not men, and it's only age of 40 to 60, well, the more you close in on it the less applicable the data may be to other groups. So you don't want to do bleeding. You don't want to do rather death. You can back up and say, Let's do complications, and ulcer perforations is a pretty clear complication. I mean that's known.

Obstruction is not quite as clear but it's pretty clear.

Bleeding is complex, and we'll probably talk about that in a

bit. But those are complications, bleeding, obstruction and perforation are complications. And those are one or two percent, not .1 percent death but one or two percent. So

two percent, not .1 percent death but one or two percent. So
 that's -- we could examine that.
 Symptomatic ulcers, you back up and include that,

that's going to be two or four percent. You can back up from that and say ulcers, you know, endoscope, take 100 people, give them the drug, look down and see who gets an ulcer. You can back up from that and say an erosion, which is a superficial ulcer, that's not — that doesn't go deep. It



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Fred Silverstein

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September 29, 2010

I don't think symptoms help for the reasons we discussed a few minutes ago. I don't think symptoms are good because so many people have symptoms. So the other thing you could do is you could look at GI bleeding. You could look at anemia. You could look at blood in the stool called hemoccult positivity.

doesn't involve the submucosal lavers of the intestinal wall.

And what had happened, I think it was 1998 when Searle went to the FDA and got celecoxib approved. This is 12 years ago so I don't exactly remember the date but I remember that I went. And I was the person who presented the GI data and — was that — anybody know? Was that 98 when celecoxib was first approved?

Okay. When we made the argument for celecoxib, it was based on about 14 different studies, studies in which you looked down and you said, you know, Hey, you give people Naproxen, Indocin, Butazolidin, about 20 percent of them are getting ulcers, three or four percent with celecoxib. If you look at erosions, it's much more with the standard NSAIDs than celecoxib. If you look at blood in the stool, it's more with the standard NSAIDs than celecoxib. If you look at anemia, it's more with the standard NSAIDs than celecoxib.

So there was a body of data which Searle presented to the FDA as part of the following statement: Celecoxib would appear to be a safe and effective drug from a rheumatic the complication.

Now, I personally feel that you aren't going to develop a complicated ulcer if you haven't got an ulcer. And so if I could take a drug and say, you know, This drug has one percent incidence of ulcers and this drug has 20 percent incidence of ulcers, I'll take the one percent incidence, that's the drug I'd rather take. But the counter argument to that is. Yeah, well, maybe it's the little ulcers that aren't present. In other words, in the patients taking NSAID A, they get 20 percent of ulcers, but a lot of them are tiny little ulcers that don't mean anything. They have one percent of bad ones and this other drug is one percent of bad ones, so you haven't really improved. And that's the argument -- that's the only argument I can think of against my argument which is, This is crazy. If I'm going to give this drug to my child and one is one percent and one is 20 percent ulceration, and since you got to have an ulceration before you develop a complicated ulceration -there's only one exception to that which is a fountain Dieulafov which is a whacky GI lesion with a little blood vessel sticking up. No one knows why it happens, a little blood vessel spurting away. But those are in less than one percent of bleeders. So a fountain Dieulafoy -- we'll spell it later -- but

standpoint, it works on arthritis and it seems to be safe and effective, but we think it also has less injurious effects on the stomach. And they used those studies I was just talking about, fewer erosions, fewer ulcerations, fewer patients with bleeding, fewer patients a little bit of bleeding in the stool, fewer patients with anemia. And Dr. Needleman got up and he said, you know, The standard NSAID is approved with 1500 to 2,000 patients. I have studied 15,000 patients.

So there's a huge body of information about celecoxib and its safety. And he was asking for the indication in the -- whatever the FDA calls it, that celecoxib was less injurious to the GI tract.

Now, the FDA said, no, that isn't good enough data yet. You haven't shown -- you got to go further down the chain in order to get us to do that. And the reason they said that was this is a big issue. There are so many patients taking nonsteroidal antiinflammatory drugs of all different kinds, and with the numbers that we talked about, there are a lot -- hundreds of thousands of patients presenting with bleeds. And so the FDA was dealing with this question, and they're just folks like we are. I mean they're as smart as we are and we're as smart as they are and you're working on solving problems, so they were pushing for taking it further down the chain even though it was going to take 6- to 8,000 patients,

and looking at the actual complication and not surrogates for

all in all ulcers. You got to have an ulcer before you develop a perforation, a bleed or obstruction.

So -- however, the FDA felt, No, that's not good enough. What they were basically saying was, the importance of this distinction of being able to say that the drug is really safer, from the GI bleeding complication standpoint it's so high that we want you to take it further down the chain and look at actual complications, and so that's how -- that was sort of the fundamental part of how the CLASS trial was designed.

that's a very rare lesion. Otherwise the complications are

Q. So when you met with the FDA in '98, at that point the drugwas already approved, correct?

A. Well, yes, the drug was approved. I had met with the FDA in the late '80s. We had a very energetic -- actually one of the few sessions I've ever been at where people were yelling at each other. The doctors were yelling at each other about this issues about surrogates. Some people were saying, Baloney, you got to have the ulcer, you got to have the bleed.

So I went to -- the FDA didn't do that again, maybe because it was such an energized section. I mean these were the quote, leaders, unquote, in the area and everybody was yelling at each over, it was sort of funny. But we had that one day which I believe was in the late '80s, then the issue -- Misoprostol was approved -- I mean excuse me --



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September 29, 2010

Frec	l Silverstein		September 29, 2010	U
	5	3	55	5
1	Celebrex was approved and then we went back to the FDA to	1	MR. MONTGOMERY: Absolutely.	
2	discuss the issue about, Okay, the data that we presented at	2	THE VIDEOGRAPHER: I'm worried about	
3	the filing didn't convince the FDA that Misoprostol was less	3	running out in the middle of an answer.	
4	injurious. What do you we have to do to get that?	4	MR. MONTGOMERY: Sure. Go ahead. Off	
5	Q. Did you mean Celebrex?	5	the record.	
6	A. Excuse me. I meant Celebrex. That the data we presented	6	THE VIDEOGRAPHER: We are going off the	
7	when Celebrex was approved all of which by the way, one of	7	record. The time is 10:11 a.m. This is the end of Tape	
8	the compelling things in my mind was every bit of data about	8	No. 1.	
9	Celebrex was positive in the right direction, it wasn't six	9	(Recess 10:11-10:26.)	
10	to two or nine to three, it was all of. All of them showed	10	THE VIDEOGRAPHER: Okay. We are back on	
11	less injury. But the FDA said, No, that's not enough. This	11	the record. The time is 10:26 a.m. This is the beginning of	
12	is my read. If the FDA was sitting here they could say, I	12	Tape No. 2.	
13	don't know where this guy was, but this is my read on it. So	13	1.000 110. 2.	
14	when we went back to the FDA, I went back with Steve Geis,	14	EXAMINATION (Continuing)	
15	they did insist I believe on a clinical end point study that	15	BY MR. MONTGOMERY:	
	actually had the end points as the end point.	16	Q. You understand you're still under oath?	
16		17	A. I do.	Į
17	Q. My question is: At the time you went back with Steve Geis	18		
18	the drug was already approved, correct?		Q. All right. Looking at Exhibit 60, do you have it in front of	
19	A. I think so, Matt, yes.	19	you? A. Correct.	Į
20	Q. So what were you asking for?	20	Q. All right. On the first page of Exhibit 60 do you see the	Į
21	A. The feeling of the people working with the drug, me included,	21		Į
22	was that it was a safer drug, that it made sense	22	heading Gastrointestinal Risk in the upper left-hand corner?	
23	pathophysiologically, and all these other things I mentioned	23	A. I do.	Į
24	pointed to the fact that it was safer. So the question was,	24	Q. And is that the warning that you were talking about before	Į
25	What do we need to do to have the FDA change the label for	25	that Searle was trying to have the FDA remove?	
	5	54	56	5
1	celecoxib what do we have to do to have the FDA change the	1	A. Fair question. I don't know because I'm not overly familiar	
2	label for celecoxib to say that it's less injurious than	2	with this format for prescribing information. It does look	
3	standard NSAIDs? And that was the question that caused	3	as if this is in a black box and is the GI risk and talks	
4	Searle to go back to the FDA.	4	about the risk of these events occurring and that they can	
5	Q. So Searle was asking the FDA to delete a GI warning from the	5	occur with or without symptoms, so I think it is the box that	Į
6	Celebrex label?	6	they were hoping to have changed by the series of studies	
7	A. I think so. I don't know what the actual form was but it was	7	including the CLASS study.	Į
8	basically every NSAID has had this two to four percent of	8	Q. And just to be clear, Exhibit 60 is a copy of the Celebrex	Į
9	patients taking this drug develop a symptomatic ulcer or a	9	label that we were talking about earlier?	Į
10	complicated ulcer with a one percent or two percent incidence	10	A. Correct. I don't know yes, I'm sorry; that is correct. I	Į
11	of a complicated ulcer and I think Searle was saying, It's	11	don't know what the date of this is. Revised in June of '09.	Į
12	not true of our drug. And they had a lot of studies, they	12	And I have I have not been involved in consulting on this	Į
13	had a lot of data that suggested that it wasn't true, but	13	matter since 2001 so many things have occurred that I'm not	Į
14	they hadn't done this blinded placebo controlled or whatever	14	aware of because I did not keep up the way I used to with all	Į
15	comparison.	15	of the literature about it. So but this is what you	
16	MR. MONTGOMERY: All right. I'd like to	16	described.	
17	show the witness what's previously been marked as Exhibit 60.	17	Q. All right. Unfortunately this doesn't have Exhibit 60	
18	THE WITNESS: (Witness reviewing	18	doesn't have page numbers so could you turn to the page that	
19	document.)	19	starts with Section 14.7 of Exhibit 60?	
20	MR. MONTGOMERY: While you're looking at	20	A. (Witness complies.) Okay.	
21	that, we can let the record reflect that David Goldberger of	21	Q. All right. Do you see the information on that page regarding	
22	Scott & Scott has appeared on behalf of plaintiffs.	22	the CLASS study?	
23	THE VIDEOGRAPHER: Counsel, because of	23	A. I see it.	
24	the length of the answers can I suggest that we take a break	24	Q. All right. Do you see the discussion of the meeting	
1 -4	and longer of the anomore can't buggest that we take a break	44	ag.ii. Do you doo allo alooaddioii oi allo illocalig	ı

25



now and change the tape?

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exposure? It's about the third sentence. I'll read it into

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September 29, 2010

the record. "Meeting exposure for Celebrex (N equals 39	37)
---	-----

- and diclofenac (N equals 1196) were nine months while
- 3 ibuprofen (N equals 1985) was six months."
- 4 Do you see that?
- 5 A. I do.

2

- 6 Q. And as far as you know is that an accurate description of the
- 7 meeting exposure from the CLASS study?
- A. I think it is. I believe it is because I just read it. I
- 9 don't have independent corroboration in my head.
- 10 Q. All right. Earlier you were talking about a presentation you
- made to the FDA on or around 1998; do you remember that?
- 12 A. Yes.
- 13 Q. And you talked about 14 different studies; is that correct?
- 14 A. That's correct.
- Q. And were all those studies about -- or did all those studies
- 16 include Celebrex?
- 17 A. Yes. All right. And the No. 14 was a figure of speech. I
- don't remember exactly how many it was. But if I remember
- 19 there was a series of studies.
- 20 Q. Approximately 14?
- 21 A. Approximately 10. 10 to 14, I don't remember.
- 22 Q. Okay. And then you said those patients represented about
- 23 15,000 patients; is that right?
- 24 A. Well, no. The total number of patients studied for the NDA
- application for Celebrex was 15,000 patients. That included

- out prematurely because of abdominal pain.
- But if the purpose of the study was to look at your
- blood level, your hemoglobin level or your hematocrit, we
- 4 might keep going. We might say, Well, we're going to keep
- 5 drawing the blood. So a little bit of taking the patient off
- 6 the study or leaving the patient on the study will be related
- 7 to what's the nature of the study.
- 8 Q. With that qualification is it your understanding that these
- 9 10 to 14 studies had information regarding the withdrawal of
- 10 patients taking Celebrex versus NSAIDs?
- 11 A. You know, I'm sure the information was available. I'm not
- sure I saw it. Because I think if you are giving a drug for
- let's say a month and at the end of the month you're doing an
- endoscopy and looking at the number of the ulcers, it's much
- less likely to have somebody drop out than if you're doing a
- six-month or longer study. So I'm sure they have the data.
- 17 I'm positive the data is there. I'm not sure I always saw
- 18 that data
- 19 Q. Okay. So I'm not asking you whether you saw it or not. Let
- me ask the guestion again, which is: Is it your
- 21 understanding that in these 10 to 14 studies there was some
- 22 information regarding withdrawals, patient withdrawals both
- in patients that took Celebrex and patients that took other
- 24 NSAIDs?
- 25 A. Yes, there's information. It might be zero, but there was
- things other than GI studies. It would have included studies
- of blood pressure, edema, cardiovascular effects. I mean, it
- was -- when you develop one of these drugs the reason it's so
- expensive is that you have to do a whole variety of different
- studies of safety and efficacy, so it wasn't all oriented
- towards the GI tract. I think Dr. Needleman's point was they
- looked at a lot of people, 10 times the number of people that
- 8 were approved for the standard -- for the previously approved
- 9 NSAIDs.

1

- $\,$ 10 $\,$ Q. All right. And is it standard practice in clinical trials to
- keep track of -- with people who withdrew from the study
- 12 while it was being conducted?
- 13 A. Yes.
- Q. And is it also standard practice to keep track of why they
- 15 withdrew from the study?
- 16 A. Yes

24

- 17 Q. So would most or all of the 10 to 14 studies we're talking
- about have kept track of that information?
- 19 A. It's a fair question, but what -- what is important here is
- 20 that the nature of the study might be such that nobody would
- drop out. So to clarify that. If we were doing a study of
- bleeding and somebody came in and said, I'm having terrible

study. I'm not going to keep you on the study, I don't want

- abdominal pain, I as a clinician would say, You're off the
- to put you at risk. So that would be a person who dropped

- information. I'm sure there's information.
 - 2 Q. Okay. Are you familiar with the -- generally familiar with
 - 3 the design of the CLASS trial?
 - 4 A. I am.
 - 5 Q. All right. And was it designed as two separate trials? I'm
 - sorry. I should have said: Are you familiar with the design
 - 7 of the CLASS study?
 - 8 A. Yes.
 - 9 Q. And was it designed as two separate trials?
 - 10 A. No. Let me explain why I say that. When -- I am not a
 - clinical trial expert but I've done a lot of clinical trials,
 - and -- just like I'm not a statistics expert although I know
 - and -- just like I'm not a statistics expert although I know
 something about statistics. And I don't mean to preach.
 - Having said that, the purpose of a clinical trial is to
 - answer a question, and if you don't start with the question
 - everything deteriorates from there.
 - So generally there should be one question that you're
 - trying to answer in a trial and I think the question -- there
 - was only one question, which was: Is Celebrex less injurious
 - in terms of GI complications than other NSAIDs? That was the
 - 21 question.
 - Q. So that's why you consider it one trial?
 - 23 A. Yes.
 - Q. Were there two separate arms to the trial?
 - 25 A. There were



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59

Fred Silverstein

September 29, 2010

	_				
1	Q.	And	what	were	thev?

- A. One was a comparison of Celebrex at fairly high dose to
- 3 ibuprofen which was selected I believe because it was thought
- to be one of the least injurious NSAIDs, and the other arm
- was a comparison of Celebrex to diclofenac which was selected
- I believe because it was considered to be one of the most
- 7 injurious NSAIDs. And I believe that in the mucosa trial.
- which we discussed earlier, there were 10 NSAIDs that were
- combined. They were never studied independently versus --
- they were never compared one to the other. Because the
- original question in the mucosa trial was does Misoprostol
- change the GI complications in patients taking a variety of
- NSAIDs; in a similar way I think the question here was, in
- patients taking different NSAIDs does Celebrex improve the GI
- outcome? I don't mean to be picking nits, I just think that
- this is important to understand, that I think there was
- 17 really just one primary question and then there --
- 18 Q. Are you --
- 19 A. -- were two arms. I'm sorry.
- 20 Q. I'm sorry. I thought you were done.
- 21 Are you familiar with the term "randomization" as it
- 22 applies to clinical trials?
- 23 A. I am.

1

11

- 24 Q. And what is a randomization?
- 25 A. It usually is seen in context with blinding and sometimes

- months, but patients were allowed to stay on the trial longer
- and some stayed on for up to 13 months. I believe the mean
- was seven months in the ibuprofen group and the median for
 - the whole group was nine months, but that's the rough
- 5 numbers. But I think the -- going into it, six months was
 - picked as the point at which everybody -- we wanted to get
- 7 everybody through to six months, and that was partially based
- on the mucosa trial which was a six-month trial.
- Q. What's the relevance of the median exposure?
- 10 A. It's just saying that the amount of time patients spent on
- the trial was varied. I don't know -- I mean I know what
- median means, but I don't know precisely how that affects the
- interpretation of the study.
- $\,$ Q. So if you looked at the -- in the CLASS trial you said median
 - is nine months. If that had been 12 months would that have
- given you any more information or would that have impacted
- 17 your analysis?

15

- 18 A. It would have answered a slightly different question. It
- would have answered the question about what happens over 12
- 20 months as opposed to what happens over nine months. Whether
- 21 it would give you additional information, I don't know.
- 22 Q. All right. Are you familiar with the phrase "primary end
- point" as it applies to clinical studies?
- 24 A. I am.

3

Q. And what is a primary end point?

with placebo control, although this was not a placebo

- 2 controlled trial. What randomization means is that as a
- patient comes in, he or she is randomly applied to one
- therapy or another therapy so that it decreases the chances
- of bias where the investigator might say, Hmm, this is a
- fairly frail patient, I would prefer to see her on ibuprofen
- than diclofenac. And the investigator might say, Let's put
- 8 this person on -- you know. That would be sort of a
- 9 nonrandomized trial. Randomized trial means that you have
- somebody else adjudicating, Hey, this next patient goes on
- be the ibuprofen arm or the comparative Celebrex.
- Q. Did each arm of the CLASS study have a separate randomization

Arm A, which would be the diclofenac arm, Arm B which would

- 14 process?
- 15 A. That's a good question and I'm not sure. I believe they did
- but I'm not sure.
- Q. And are there any -- assume for this purpose that they did.
- I can -- I'll show you the protocol in a minute and we can
- talk about it then, but does the two separate randomizations
- have any implication for the statistical analysis of the
- results after the study is done?
- 22 A. I don't know.
- 23 Q. Okay. How long was the CLASS study? I'm sorry; per the
- 24 design?
- 25 A. Okay. Well, the design was to have patients get to six

- 1 A. When you design a clinical trial, just as you come up with
- one question you want to answer, you say, We wanted to find
 - an end point which answers that question. And you put
- 4 statistical bounds on it so that you're fairly sure that when
- 5 you get an answer, if it is statistically significant that
- 6 you can point to it and say, I think there's a real
 - difference here.
- 8 Q. What was the primary end point of the CLASS study?
- 9 A. The primary end point of the CLASS study was a GI
- complication, specifically GI bleeding, perforation or GI
- obstruction, and that was the primary -- unless I'm getting
- lost here, that was the primary end point.
- Q. And do you have an understanding of why that was chosen as
- 14 the primary end point?
- 15 A. I do. As I said, short of death, which can result from
- bleeding perforation or obstruction, the -- every patient is
- an individual -- and this is going to sound a little strange
- perhaps, but every patient is an individual. Physicians try
- to group patients because they don't know what else to do, so
- when somebody comes in with flu like symptoms you try to
- group them into a diagnosis of the flu.
- 22 In this instance you try to group patients where
- 23 something has gone amiss with their GI tract into what
- categories can go wrong, and the categories seem to be partly
- from the mucosa trial, partly from my ASGE trials and partly



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63

Fred Silverstein

September 29, 2010

1	from 300 other trials that the predominant things that happen
---	---

- of an adverse nature in somebody who is taking NSAIDs in the
- upper GI tract are bleeding, perforation and obstruction.
- Therefore, those were the end points selected. 4
- They did not select the end point for the primary end 5
 - point of symptomatic ulcers, and I think it raises -- you
- know, it's the same issue that I've been talking about
- repeatedly, which is it's a continuum and if you want to be
- 9 really, really, really, really sure, take mortality. If you
- 1.0 want to be sure just a little short of that, take the three
- 11 complications. A little short of that you'd include
- symptomatic ulcers. Because as I said, if I were taking care 12
- 13 of you and you had a symptomatic ulcer I would take you off a
- 14 trial, I wouldn't let you keep going because I would consider
- that to put you at risk of a real serious complication. But 15
- the decision was made and I was not -- to the best of my 16
- knowledge I was not part of that decision. That was done 17
- 18 before I joined the CLASS group. The decision was made to
- 19
- make those three complications the primary end point and not
- 2.0 to include symptomatic ulcers as a primary end point
- 21 Q. Do you have an understanding of whether the FDA had an
- 22 opinion on what the primary end point should be?
- A. I don't know that. I don't know if the FDA did -- you know, 2.3
- said that they wanted symptomatic ulcers in it or not in it, 24
- but they weren't in it, and I don't have a clear answer to 25

Q. All right. I want to ask you a question that's specifically

that would be tough because it would take -- if you're

event analysis of how long it's taking for the different

talking about the three events you'd have to do a time to

groups. If you're trying to look at ulcers you'd have to do

serial endoscopies. And that's not so easy to do from an

ethical standpoint. You know, an endoscopy every week,

there was information available about that, to my knowledge.

MR. MONTGOMERY: I'd like to show the

witness now what is Exhibit 61, has been previously marked as

Q. (BY MR. MONTGOMERY) Is Exhibit 61 a protocol for the CLASS

A. To define how the study is designed and how the study should

Q. Does a protocol also set forth how the results of the study

that's putting a patient through a lot. So I don't think

about the year 1999 and your understanding at that point.

At that point did you have an understanding of whether

or not NSAIDs created GI adverse events sooner than Celebrex? A. No. I don't think so. I mean, the way you'd have to answer

vour question.

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Q. All right.

Exhibit 61.

be conducted.

A. It would appear to be, yes

Q. And what's the purpose of a protocol?

study?

- 1 should be analyzed after the study's finished?
- 2 A. I would think so.
- Q. And why not just get the data and then decide how to analyze 3
- it afterwards?
- A. Well, you could do that if you had very carefully specified
- your primary and secondary end points. You could get the 6
- data and say let's look at the primary end points and
- secondary end points. They're sort of linked together. If 8
- you say the primary end point is to look at serious adverse
- 10 GI events, then that's what we're going to look at in the two
- 11 different groups, so they're kind of together.
- Q. But do you define -- before you start the trial do you define 12
- 13 how you're going to analyze the primary end points?
- A. This is really a statistical question and I am not a 14
 - statistician, but to the best of my knowledge the answer
- would be yes 16

15

- Q. And why is that? 17
- A. Because you want to conduct a trial and look at the data to 18
- 19 answer the question. You don't want to conduct a trial, look
- 20 at the data and then decide what kind of questions you want
- to answer. So in general you would like to design a trial 21
- 22 and have the trial then answer the question that you started
- 23
- 2.4 Q. All right. Would you turn to page Bates number ending 850 of

68

25 Exhibit 61.

- A. (Witness complies.) Okay. 1 Q. Do you see Section 4.3 on that page?
 - 3 A. Yeah
 - Q. All right. And it says "Treatment period," correct?

 - Q. And is that a common term when discussing clinical studies? 6

 - 8 Q. And what does it mean?
 - A. It means that's the period of time that the patients will be 9
 - exposed to whatever you're going to treat them with while 10
 - you're looking for the end event. 11
 - 12 Q. And what was the treatment period in -- per this protocol?
 - 13 A. Oh, I believe it was at least 26 weeks which is six months,
 - up to 52 weeks, it looks like to me. 14
 - Q. All right. And that just describes the minimum and maximum 15
 - amount of time that the patients on the study are exposed to 16
 - the drug, correct? 17
 - A. Correct. 18
 - 19 Q. Okav.
 - 20 MR. MONTGOMERY: At this point I'd like
 - 21 to show the witness what's previously been marked as
 - Exhibit 63. 22
 - 23 MS. McPHEE: I'm sorry; what was the
 - 24 exhibit number?
 - MR. MONTGOMERY: 63. You'll recognize 25



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1	it.	1	the I don't understand the drug safety and monitoring	
2	Q. (BY MR. MONTGOMERY) Have you seen Exhibit 63 before?	2	functions overly well because that's not an expertise of	
3	A. No, I have not seen this entire exhibit although I have seen	3	mine. There are people who are experts in studying drug	
4	portions of the exhibit.	4	toxicity. How do you study renal effects? How do you study	
5	Q. Per the first page it's called an All Committee Manual,	5	hepatic effects? I know some about it, but I'm not an expert	
6	correct?	6	about that.	
7	A. Right.	7	I am an expert on GI events. And the reason I was in	
8	Q. Do you have an understanding of what an All Committee Manual	8	this whole trial was GI events. The reason I didn't sit on a	
9	is?	9	chair at the gastrointestinal events committee was I didn't	
10	A. No. I mean it's appears to be obvious that it has the	10	have time. My other responsibilities in life were didn't	
11	three committees that we used to help run the trial listed	11	leave me enough time, because it's extremely time-consuming	
12	and then the references that were sought and used during	12	to look at each event and then to try to adjudicate whether	
13	especially the drug safety and monitoring portion.	13	it in fact constitutes one of the complications. And	
14	Q. But you don't have an understanding of what this particular	14	although it may not be what anybody wants to hear, in fact,	
15	document was to be used for; is that right?	15	these events are not always as easy to say yes or no as you	
16	A. Do you mean the entire document?	16	might think.	
17	Q. Yeah.	17	So the executive committee I think I've answered	
18	A. I I think I'm confusing the times you're talking about. I	18	your question. I think I feel that the executive	
19	mean this is these are the reports of what happened so I	19	committee had to overlook the trial, be sure nothing had gone	
20	don't know	20	wrong, be sure the blind hadn't been broken, to find out that	
21	Q. Let me clarify then.	21	some center had opened the blind my mistake, and then to see	
22	A. Yes, please do.	22	if there were any things happening. I mean it's also	
23	Q. I'm not talking about the individual portions of the	23	possible the gastrointestinal events committee could have	
24	document, which we'll get to in a minute, but the whole	24	found something that was worrisome and gone to the executive	
25	document itself, Exhibit 63 with all its constituent parts,	25	committee and said, Something is happening and we better stop	
	7	0		72
1	do you have an understanding of what purpose it served?	1	the trial until we figure out what it is. It could have been	
2	A. I think so. I think it would it talks about what the	2	of any nature. So that's my concept of what an executive	
3	executive committee thought, what the drug safety and	3	committee does.	
4	monitoring board thought and what the GI events committee	4	Q. Okay. Would you take a look at the second and third pages of	
5	thought. So in that sense I think that's what it is, right.	5	Exhibit 63, please.	
6	Q. And is this a document that would be submitted to the FDA or	6	A. Right.	
7	for internal use?	7	Q. These would be Bates numbers ending in 099 and 100.	
8	A. I don't know.	8	A. Right.	
9	Q. Okay. Were you on the executive committee of the CLASS	9	Q. Is this a letter that you wrote to James Lefkowith dated	
10	trial?	10	February 9th, 2000?	
11	A. I was.	11	A. That's correct.	
12	Q. Were you the chairman of the committee?	12	Q. And why did you write this letter?	
13	A. I was.	13	A. It was actually at Dr. Lefkowith's suggestion and with input	
14	Q. And what was the function of the executive committee?	14	from him that we clarified the fact that there were these	
15	A. The function of the executive committee was really to oversee	15	committees and so that it was run properly that we had the	
16	the trial and to in the event that something went wrong,	16	executive committee, the adverse effects committee and the	
17	as I see it, if something went wrong, for example, under drug	17	drug you know, the three, the GI event committee and the	
18	safety and monitoring and if that person had contacted the	18	drug safety monitoring board, and I believe it also just	
19	executive committee and saying, We're seeing a signal that	19	one second, that the blind had been maintained.	
20	suggests that something is happening here that we don't like,	20	In other words, I think in any one of these studies, if	
21	it would have been the executive committee's responsibility	21	the blind has been opened, it calls immediately into question	
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along with everybody else to say, We better stop the trial

because we're seeing something that we're worried about.

And I think that really is the main responsibility of

the executive committee. Plus to be sure that -- you see,

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the integrity of the study. Not integrity meaning the

morality of it, but rather whether you can really count on

repeatedly that the study was conducted in an exemplary way,

the study. And I was sure -- I said because I was told

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Fred Silverstein

September 29, 2010

- were doing prior to the study being completed and opened.
- Q. Okay. Would you take a look at the second paragraph on the
- first page of your February 9th, 2000 letter.
- Q. It starts -- the paragraph that starts, "The charter of the
- executive committee." do vou see that?
- Q. All right. About two-thirds of the way down in that 9
- 1.0 paragraph do you see on the left side you refer to the two
- 11 CLASS trials?
- A. Yes. 12
- 13 Q. Why did you characterize them as two separate trials in this
- 14

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- A. Okav. Just a moment. Let me read that. 15
- Q. Sure, take your time.
- A. (Witness complies.) 17
- 18 Okay. You may be asking a question about whether we 19 called it two separate trials. I would say that that wasn't
- the point of what I was saying. What I was saying was that 2.0
- 21 the gastrointestinal events committee was in fact very, very
- 22 careful about how they used the definitions that we came up
- with as to whether to include or not to include a patient as 2.3
 - an event. And I will give you a chance to ask me a question
- if I'm getting it wrong but -- but the point I want to make 25
- is, to you a GI bleed is a GI bleed. To me that's not the case. And I'll give you an example. Somebody who comes in
- and vomits up a quart of blood and has red blood in their
- stool, that's a GI bleed. Probably a GI bleed. Could
- occasionally be something strange like an attachment between
- the aorta and the small bowel where the blood is coming right 6
 - out of the aorta through a fistula. But that's going to be
- 8 very rare.
 - So if somebody vomits blood and they have dark stools or red stools, you would say that's an upper GI bleed. But what about a person who comes in a little light-headed and has black stools which you test and has a little bit of blood
- 13 in it, but their blood level is normal? Or what about the
- 14 patient who comes in who vomits up blood and their blood
- 15 level is normal but they fainted? The point I'm making is
- 16 that it's a whole continuum of signs and symptoms that
- patients present with and it's not easy to say whether 17
- 18 something is or is not an event. And this is critical
- 19 because as you know, the number of events was actually very
- 20 small, so just one or two events could have the effect of 21
 - changing the outcome or interpretation of the study.
- 22 So this issue about the committee adhered strictly to
- 23 the definitions and the precise definitions were used, I was
- 24 involved with the evolution of those definitions, as I 25
 - remember. I certainly was involved with that in the mucosa

- trial. But again, it sounds like it's simple, but it's
- simple to somebody who's never done it. To those of us who
- have actually done it it's almost an -- it's an unanswerable 3
 - question, and I know that because in that ASGE study I did in
- 1980 it was very difficult. I mean how many units of blood? 5
 - How about this: A patient comes in and vomits blood
- but never needs a blood transfusion? Or a patient comes in and has a slightly low hematocrit and blood in their stool.
- 9 the stool is brown, hematocrit -- the stool hemoccult is
- positive, but they don't need a blood transfusion. Is that a 10
- GI bleed? 11
- 12 So the easy ones are easy, the difficult ones are in
 - fact very difficult. And the point I was making there was --
- 14 where I say the primary outcome of the trials -- obviously
- 15 the trial against diclofenac and the trial against
- ibuprofen -- was the care was taken to review the records of 16
 - any patient thought to have an ulcer complication,
- definitions were used and they were stuck to. And again, I 18
- 19 tell you that I sat in a room once when I was doing this ASGE
- trial with hundreds of pounds of paper trying to figure some 20
- of this out and we just do the best you can. 21
- 22 Q. All right. I think my question is a little simpler, which
- 23 is: Earlier I think -- I believe you testified that you
- 24 thought it was a single trial, that the CLASS was a single
- 25 trial because it was answering one question.
- 74
 - Q. And here you refer to it as two trials, and I'm wondering why

1

A. Yeah.

- A. Oh, I -- it's a fair enough question. I think it's two
- trials together to answer one question. That's why. I mean
- I think it was that. I understand why you asked it but 6
- that's what I think is the answer. But the point of the
- paragraph --
- Q. Right. I understand. 9
- 10 A. -- is what I went into.
- Q. Okay. When you wrote this letter February 9th, 2000, had the 11
- 12 executive committee finished its work?
- 13 A. This is 10 years ago and I don't exactly remember. I believe
- 14 that is the case.
- 15 Q. Okav
- A. And I think the purpose of this was to codify that no --16
- blind wasn't broken, we were very careful about monitoring 17
- for serious data and also very careful with the GI events. 18
- Q. All right. Did the executive committee have a charter? 19
- 20

23

- 21 Q. All right. And you see in the first sentence of the third
- paragraph of your February 9th, 2000 letter it says that "The 22
 - executive committee adhered to its charter"?
- 24 A. I believe that's right.
- Q. And -- you think that's accurate? 25



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September 29, 2010

1 A. Yes.

Q. So there were no violations in the charter that you're aware

3 of?

4 A. That is correct.

5 Q. Was the charter ever amended?

A. I don't remember.

Q. Okay. Can you turn to the fourth page of Exhibit 63, Bates

number ending 101. I don't think you're there.

9 A. I'm sorry. Oh, the signatures?

10 Q. 101

11 A. Okay, just a minute. This one.

12 Q. Yes. Is this the signature page of the executive committee

13 charter?

14 A. It looks that way to me, yes.

15 Q. And is that your signature at the top?

16 A. It is

17 Q. All right. Unfortunately the copy of the executive committee

charter that's in this document is partial, some pages were

missing. So I'm going to show you what's previously been

20 marked as Exhibit 69 to fill in the blanks.

Does this appear to you to be an unsigned version of

22 the executive committee charter?

23 A. It does

24 Q. All right. Would you turn to Page 2 of the document.

25 A. Okay.

Q. In Exhibit 69. Do you see Section 3.1 there, The

2 Responsibilities of the Executive Committee?

3 A. Yes.

4 Q. Would you take a look at those responsibilities. My question

is: To your recollection did the executive committee fulfill

6 those responsibilities?

A. Okay. I read it. I'm sorry; ask the question again.

Q. Does Section 3.1 here set out the responsibilities of the

9 executive committee?

10 A. It does.

8

11 Q. And did the executive committee fulfill those

12 responsibilities?

13 A. To the best of my knowledge, yes.

14 Q. Okay. Do you see Section 3.2 below that?

15 A. Yes.

16 Q. "Functions of the EC"?

17 A. Yes.

18 Q. Does EC stand for executive committee?

19 A. It does.

Q. Do you see the first bullet point there says, "Review and

approve the EC charter"?

22 A. Yes.

23 Q. That's the document we're looking at, correct?

24 A. Yes

25 Q. And did you in fact, as the executive committee, review and

1 approve the EC charter?

2 A. Yes.

3 Q. All right. Going back above to Section 3.1, do you see in

4 the bottom bullet point, No. 2, it says "To prepare the

5 primary manuscript of each study"?

Do you see that?

7 A. Yes.

6

8 Q. Is it your understanding that at least at the time this

9 charter was finalized that the executive committee was

expecting to write a separate manuscript for each arm of the

11 CLASS study?

12 A. No

13 Q. Okay. Why does it say that?

14 A. Oh, excuse me. I didn't see the part that says "of each

15 study." I think that it's making recommendations regarding

the publication of data collected so it's making

recommendations to prepare the primary manuscript of each

18 study. It looks as if it's dividing it up into two studies

but that was not my -- not my knowledge of it at the time. I

20 missed that

Q. Okay. Could you turn the page to Page 3 of Exhibit 69. Do

you see Section 5.3, Voting, there?

23 A. Yes

Q. Was Dr. Lefkowith a member of the executive committee?

A. I believe he was a nonvoting member but I don't exactly

78

remember. He was certainly the Searle representative and he

2 certainly was very much involved with this trial. I don't

remember whether he was a formal member of the committee. He

4 may have been a nonvoting Searle representative.

Q. All right. Is there any -- well, can you look at Section 5.3

on Page 3 of Exhibit 69? Is there anything in there that

would indicate that Dr. Lefkowith was not allowed to vote?

8 A. (Witness complies.)

9 I don't think it addresses it one way or the other. It

certainly does not say that he was not allowed to vote. I

don't think it addresses it.

Q. All right. Would you turn the page, please, Page 4 of

Exhibit 69. Do you see Section 5.4, "Procedures for

recommendations to Searle," at the top of the page?

15 A. I do.

Q. All right. I'm going to read this section into the record.

"Duly voted and passed EC recommendations will be transferred

in writing to Searle within seven working days of the meeting

of which the recommendation was formulated and passed."

20 Do you see that?

21 A. I do.

22 Q. And to your knowledge did the executive committee comply with

this portion of the charter?

24 A. I -- to my knowledge we did, but --

25 Q. I'm sorry.



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Fred Silverstein

September 29, 2010

me.

- Q. Go ahead
- 3 A. But I'm not positive that it was always in writing. I think
- 4 it was -- I don't know if it was always in writing. I can't
- 5 remember.
- Q. Okay. Do you have any recollection of any recommendations
- 7 that the executive committee made to Searle that weren't in
- 8 writing?
- 9 A. No.
- 10 Q. Okay
- 11 A. And furthermore, I don't have any recommendations made to
- Searle by the executive committee that were sort of in any
- way pertinent. I mean it's not as if we, Uh-oh, we've got
- something going on here, I don't want to put it in writing,
- 15 I'll tell you; that to my knowledge never happened. So I
- don't think the executive committee -- earlier we saw
- somewhere that it would look at the data safety and efficacy
- and would alert Searle if something was happening. I don't
- 19 think that ever happened
- Q. All right. Let's look at Exhibit 5 -- I'm sorry; Section 5.6
- of Exhibit 69. Do you see that, "Summary notes"?
- 22 A. Yes.
- 23 Q. I'm going to read the first sentence into the record. It
- says, "Summary notes are prepared for each meeting of the EC
- and distributed in a timely manner after each meeting and
 - reviewed and approved at the subsequent meeting."
- Do you see that?A. I do.
- Q. And to your knowledge did the executive committee comply with
- 5 that?

1

- 6 A. I don't remember.
- 7 Q. Do you remember summary notes being created?
- A. To some degree but I don't exactly remember that minutes were
- 9 collected and circulated. They may well have? I just -- in
- the middle of all the things that were going on I just don't
- 11 remember.
- 12 Q. Do you remember any specific instances where minutes -- first
- of all, strike that question.
- So do you understand summary notes to be the same thing
- as meeting minutes?
- 16 A. Yes.
- 17 Q. Okay. And do you have any specific recollection of any
- instances where there was a meeting of the executive
- committee but where minutes or summary notes were not
- 20 created?
- 21 A. A lot of negatives in that, but I do not remember whether
- every meeting had minutes and whether every set of minutes
- 23 was circulated.
- 24 Q. Right. I'm asking a slightly different question now --
- 25 A. Right, please.

- 1 Q. -- which is: Do you have a recollection of any specific
- 2 instances where there was a meeting of the executive
- 3 committee but minutes were not created?
- A. I do not.
- 5 Q. Okay. If I ever ask a question you don't understand, let me
- know and I'll try it again.
- 7 A. No, you're doing fine
- Q. Can you look at the last page of Exhibit 69? Do you see at
- 9 the top of that page it talks about, "Exemptions by the EC
- 10 chairperson for conflicts of interest"?
- 11 A Yes
- 12 Q. You were the chairperson, correct?
- 13 A. Correct.
- 14 Q. Did you grant any exemptions?
- 15 A. I believe that each of the three people on the committee were
- paid consultants to Searle and were exempted and I don't
- 17 remember if that was done in writing, but I think -- to the
- best of my knowledge we never discussed any parts of
- remuneration or compensation, but as far as I know Gerry
- Faich and Lee Simon were consultants to Searle and were part
- of the executive committee and that was fine with me.
- 22 Q. Were you compensated for serving on the executive committee?
- 23 A. Only in the sense that I each month would total up the number
- of hours I spent working on the CLASS trial and would bill
- Searle pursuant of all the financial data that exists
- 82
 - somewhere, and that would have included the time that I
 - 2 was -- that I spent on the executive committee. But I don't
 - 3 remember that as being a large amount of time.
 - 4 Q. Did you have any participation in the conduct of the CLASS
 - study other than serving on the executive committee?
 - 6 A. You know, not really because I should have been on the GI
 - 7 events committee because that is truly where my expertise is,
 - 8 but I couldn't be because of time constraints. So I would
 - say if you want to know where my time came out, it was in the
 - area of the functioning of the executive committee, not in
 - the data drug safety and monitoring. And it wasn't in the
 - 12 events committee because those folks were spending hundreds
 - of hours looking at every case and trying -- I occasionally
 - spoke to them about it, they would consult with me because of
 - my expertise in GI bleeding clinically, but I would say most
 - of it was the executive committee, my participation.
 - 17 Q. So just to clarify, as far as you understand it, you were
 - compensated for serving on the executive committee of the
 - 19 CLASS study?
 - 20 A. Yes.
 - 21 Q. Okay. Do you remember the GM article we talked about
 - 22 earlier?
 - 23 A. Yes.
 - Q. Were you -- you were one of the authors of that letter -- I'm
 - sorry; that article, correct?



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84

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September 29, 2010

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- Q. And were you compensated for being an author of that article?
- 3 A. I don't remember. I would probably say no, that that was
- not -- it was sort of the end of the trial and here was the
- 5 paper and I was not compensated specifically for that, no.
- To the best of my knowledge.
- Q. Okay. Would you turn to Page -- we're going back to the big
- 8 document now, Exhibit 63. Would you turn to page Bates
- 9 number ending 9105 of Exhibit 63.
- 10 A. (Witness complies.)
- 11 Q. All right. Are these the minutes of a March 3rd, 1999
- 12 executive committee meeting?
- 13 A. So it would appear, yes.
- 14 Q. Okay. Now, having looked at this do you recall whether or
- not you saw the minutes after each meeting?
- 16 A. Yes, I guess. There's a lot of paper, but yes, I would say
- yes, I was aware of this.
- 18 Q. All right. Would you turn the page, please, to Bates number
- ending 106 of Exhibit 63?
- 20 A. Yes.
- Q. Are these the minutes of the June 6th, 1999 executive
- 22 committee meeting?
- 23 A. Yes.
- Q. Okay. Turn the page again to the page Bates ending 107 of
- Exhibit 63. Are these the minutes of a September 21st, 1999

- 1 A. I do.
- Q. All right. Take a look at the second paragraph there and
- then let me know if that refreshes your recollection --
- 4 A. Okay.

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- Q. -- about the censoring rule.
- A. (Witness complies.)
- Yes. I mean I was right. That's exactly what it's
- talking about. It's the fear that you're going to confound
- 9 the data because of therapy the person was on prior to coming
- on the trial, an illness they may have suffered. So you want
- to take that out as long as possible but you don't want to
- miss events related to the study so it's a bit of a quandary
- You know, you want to go longer or endoscope the people and
- say, Okay, she's clean, she doesn't have an ulcer, she can
- come on. But if you don't do that -- and there are reasons
- not to do that, as I said. Endoscopy, even as an old
 - endoscopist who's done maybe 25,000 endoscopies, endoscopy is
- not entirely safe and any time you do it on a patient you're
- putting him to a risk. So it's a ying and a yang of we would
- 20 prefer to have an endoscopy but that carries its own risk
 - So you say, Okay, we're going to go seven days. We're
- going to say that -- that's what this is saying, we'll go
- seven days and any event that occurs before then will be not
 - considered, and then apparently it was changed to two days in
- 25 the article you showed me.

1 executive committee meeting?

- 2 A. Yes
- Q. Would you look at the third paragraph in the discussion
- 4 summary?
- 5 A. Yes
- 6 Q. And do you see a reference to "the new 48-hour censoring
- 7 rules"?
- 8 A. Yes
- 9 Q. And do you know what that refers to?
- A. You know, I don't exactly remember. I know the concept is
- this: If patients come into a trial, the cleanest way to do
- the trial is to endoscope them and say they're clear of
- ulcers and then start them on the drug and really endoscope
- them and say whether or not they have an ulcer. If you don't
- have either of those the question comes up as to whether the
- person came on to the study and had an ulcer caused by a
- different drug they were on at a remote period and how do you
- different drug triey were on at a remote period and now do
- deal with that, and I think -- I think that's what the
- censoring rule was. I would like to see the definition of
- 20 censoring rules. I don't remember precisely what that
- 21 referred to.
- Q. Why don't you take a look at the protocol, Exhibit 61 I
- believe, Bates number ending 857 of Exhibit 61.
- 24 A. Just a moment. I have it.
- Q. All right. You see Section 5.5 on that page?

- 1 Q. Okay. So just to clarify: Per the protocol, any ulcer
- 2 complications that happened in the study within seven days of
- a patient starting the study were censored and didn't count
- 4 basically, correct?
- 5 A. Correct.
- 6 Q. And then later that was changed from seven days to two days,
- 7 correct?
- 8 A. Correct.
- 9 Q. And why was that?
- 10 A. I don't remember.
- 11 Q. All right. We'll look at some minutes in a minute.
- 12 A. Okay.

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- 13 Q. I'll follow up with that.
 - For now let's turn the page, please, to Bates number
- ending 108 of Exhibit 63.
- 16 A. (Witness complies.)
- Q. And are these minutes of a December 2nd, 1999 meeting of the
- executive committee, the DSMV, the GEC, and people from
- 19 Searle and Pfizer?
- 20 A. Yes.
- Q. Okay. And why was there a joint meeting of all the
- 22 committees?
- A. Getting all these people together in person is a challenge.
- 24 Most of us were very busy -- as a matter of fact, correct,
- every one of us was very busy and getting us to travel to one



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September 29,

spot is -- was difficult, and therefore, when we had a chance

- to get everybody together that was a good thing. I don't 2
- remember whether the whole meeting was everybody together or
- whether it was -- and therefore the executive committee was 4
- represented by myself, Simon and Faich, the DSMV by Makuch
- and Pincus and Faich, et cetera. But I think that's what
- happened. I think we all got together to review what was
- Q. I guess my question is why the previous minutes were of 9
- 1.0 individual meetings of just the executive committee. This is
- 11 a joint meeting of all three committees plus some other
- people. Do you have an understanding of why this particular 12
- 13 meeting was everyone?
- 14

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- Q. Okay. Was this the last meeting of the executive committee? 15
- A. I don't know
- Q. Okay. At this meeting did the executive committee and the 17
- other committees decide to stop the CLASS study earlier than 18
- 19 the protocol called for?
- A. I believe that's true. 20
- 21 Q. And why did they do that, or you do that?
- A. Right. I believe what had happened was that there was a
- dramatic drop off in the number of events occurring -- still 2.3
- blinded, to my knowledge still blinded, and it looked as if 24
- we were getting one or two, or we were getting an event every 25

- 1 UGI event censoring rules."
- 2 A. Yes.
- Q. Would you read that paragraph to yourself and let me know 3
- when you're done.
- A. (Witness complies.) Okay. 5
- Q. All right. Having looked at that, does that refresh your
- memory about why the censoring rule was changed from a week
- to 48 hours?
- A. No, because -- may I just --
- 10 Q. Sure. Go ahead.
- A. Because it looked as if it was saving -- it was taking as a 11
- given that it was going to be 48 hours and then saying, Okay, 12
- in light of the 48 hours, any event occurring within the 13
- first 48 hours of the first dose of study medication I guess 14
- 15 would not be allowed and any event occurring more than
- 48 hours after the last dose, except that any event occurring 16
- 17 within two weeks would be looked at by the gastrointestinal
- events committee 18
- 19 Q. All right. And at this time --
- 20 A. But that doesn't -- I'm sorry. It doesn't address the
- question of why they went from seven days to two days. 21
- 22 Q. Okay. And you don't know?
- A. I don't remember.
- 2.4 Q. Okay. At this time period, so 1999, did you have an
- 25 understanding whether or not NSAIDs were more likely to cause
- one or two months and that it was going to take a long time
- to get -- I think the original -- there was a number of 2
- patients stipulated as being the total number we wanted to 3
- get and we weren't quite there, short by I think three, but
- that it looked like it was going to take a long time to get
- those three. And I think that's what we're saving: "The 6 7 review of the clinical events show the observed study 35
- deviated from prediction with no events for three months and
- 102, only one event in the past two months." 9
 - So for that reason it was decided to stop the study.
- THE VIDEOGRAPHER: Counsel, the page is 11
- partially blocking. Yeah, just a little bit lower. Thanks. Q. (BY MR. MONTGOMERY) All right. Do you recall any specific 13
- 14 executive committee meetings after December 2nd, 1999?
- A. I do not. 15
- Q. Do you remember the executive committee doing anything as a 16
- committee after deciding to terminate the study? 17
- A. I don't remember. Again, this was in a time when lots of 18
- things were going on and I just don't remember. 19
- Q. Okay. Would you turn to page Bates ending 127 of Exhibit 63. 20
- 21
- 22 Q. All right. The top of the page reads "The historical
- 23 incidence," do you see that?
- 24 A Yes
- Q. If you look at the second paragraph there that starts, "The 25

- ulcer complications within the first seven days than 1
- Celebrex? 2

90

- A. No, I do not remember that.
- Q. Do you have an understanding about that now?
- Q. Okav 6
- 7 A. If you look at the -- if you look at the demography of what
- happens with these events, and having done it myself because
- I've endoscoped lots of people on trials and clinical people,
- you wouldn't expect too many things to happen within just a 10
- few days. Now, that's -- that was the whole issue is if it 11
- 12 happened, you know, within a few days was it related to
- 13 previous stuff or was it related to the current drugs?
 - Are we done with this thing for now?
- 15 Q Yes for now
- MR. MONTGOMERY: At this point I'd like 16
- to show the witness what's been previously marked as 17
- Exhibit 66. 18
- Q. (BY MR. MONTGOMERY) Is this the final report for the CLASS 19
- 20 study?

14

- 21 A. Yes.
- Q. And have you seen it before? 22
- 23 A. I -- I'm sorry. I believe I have.
- 2.4 Q. What's the purpose of a final report?
- A. To record what happened in the study so that later if you 25



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Fred Silverstein

September 29, 2010

1	need to go back and figure out what happened you'd have one
_	

- place to go. It's probably never easier to put this together
- than right after the study is done. You wait two or three
- years it's more and more difficult to figure out what
- happened. So it's -- the obvious would be it's a way of
- explaining how the trial was conducted and what happened and
- how the data was interpreted.
- Q. And is it your understanding that a final report is for
- internal use or to give to the FDA? 9
- 10 A. I don't know. I know the FDA gets everything. Whether they
- 11 get this report or not, I don't know. But data-wise they get
- all the data 12
- 13 Q. Okay. On the first page do you see the study dates?
- 14
- Q. All right. And do you see the date March 17, 2000 there? 15
- A. (Witness nods head up and down.)
- Q. You have to answer audible. 17
- 18 A. Yes. I'm sorry. I do.
- 19 Q. What does that date represent?
- A. I don't know. I would assume looking at this that it's the 20
- 21 date of the last -- the date in which we would still accept a
- 22 patient; that after that we would say the study is over, so
- studies were accepted until that day. That's what I would 2.3
- assume from looking at this. 24
- Q. Okay. Would you turn to the fifth page of Exhibit 66 Bates 25

2.4

- number ending 116. 1
- A. (Witness complies.) Okay.
- Q. Do you see the Statistical Methods at the top of the page?
- Q. All right. Under the first bullet do you see the paragraph
- that reads, "The primary reason"? 6
- 7
- 8 Q. All right. Can you read that to yourself and let me know
- when you're done.
- A. Yes, I will. (Witness complies.) Okay. I've read it.
- Q. Does that paragraph describe the primary reason for analysis 11
- 12 at six months?
- 13 A. I believe it does
- Q. Okay. And can we refer to that generally as informative 14
- censoring? 15
- A. Partly. I mean it's partly informative censoring and it's 16
- partly talking about the confounding effect of taking low 17
- dose aspirin, which is not informative censoring as I see it. 18
- Q. Let's just talk about the --19
- A. So it's both. 20
- 21 Q. -- informative censoring part.
- 22 A. Okav.
- 23 Q. Can you explain to me in your own words what informative
- 24 censoring refers to in this context of the CLASS study?
- A. Yes. So it gets back to this question about -- in a study 25

- you want the study groups to be comparable. So, for example,
- 2. you would not want -- if you take a study A versus B, you
- would not want 90 percent of the patients in A to be male and 3
 - 10 percent of the patients in B to be male. You'd like the
- groups to be comparable. And a lot of time was spent on this 5
 - trial to look at the demographics and assure the fact that
- the different groups were comparable in terms of age, 8
 - diagnosis, underlying risk factors, et cetera.
 - My concept is that the question arose as to why did some of the NSAID comparators stop having adverse events?
- 11
- What happened? I mean is it known that you can take a drug and if you get by six months that you somehow are now 12
- protected against an adverse event? And I think the answer 13
- 14 is no to that. I don't think that's the case. I don't think
- 15 anybody has any evidence to that being true.
- So I feel that you want to be as sure as possible that 16
- 17 as the study moves along the groups are comparable and
- therefore that conclusions one draws for any time period are 18
- 19 relevant because the groups were comparable. And my concept
- 20 of what happened was that during the six months there was a
- change in the nature of the groups because people with 21
- 22 symptoms and symptomatic ulcers were being dropped
- 23 disproportionately from the NSAID arms of the study rather
 - than the Celebrex arms, and therefore, at six months, if
- 25 you've gotten rid of the patients who have symptoms and the
- patients who have symptomatic ulcers in let's say the 1
 - diclofenac group, that therefore, the chance of that person 2
 - developing an ulcer complication in the ensuing six months of 3
 - 4 that group of patients is different.
 - In other words, you have depleted the susceptibles.
 - The susceptibles are the people with ulcers and with ulcer 6
 - symptoms and they're out of the study. And surely we know
 - that -- I told you that if you have 100 people taking NSAIDs,
 - not all of them develop symptoms and not all of them develop symptomatic ulcers and surely not all of them develop ulcer 10
 - 11
 - complications. There are some people who can take these 12
 - drugs with impunity and they get by fine. But there are some
 - 13 people in whom they do develop symptoms and those people were 14 being -- as I understand it, those people were not
 - 15 proportionate in the Celebrex versus the NSAID groups, and
 - 16 therefore, the data after six months was not comparing
 - comparable groups. 17
 - Sorry. That's a winding answer, but... 18
 - Q. What you just said, though, that's your understanding of the 19
 - 20 informative censoring theory?
 - 21 A. That's right.

23

- Q. Okay. All right. So correct me if I'm wrong. You said it's 22
 - the withdrawal of people that either get a symptomatic ulcer
- 24 or a GI symptom, correct?
- A. Correct. And I think -- please. I'm sorry. 25



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September 29,

L	Q.	So with regard to the	symptomatic ulcers,	can you correct for

- that by using a combined end point that uses complicated
- ulcers as well as symptomatic ulcers?
- A. Can you correct for it? Well, you certainly can look at the 4
- data. I mean you can change the end point from just
- complications, you know, perforation, bleeding and
- obstruction, and you can add symptomatic ulcers. Yes, that
- would be one way to say, We have a little better feel for
- 9 what's happening.
- 10 Q. Right. I mean to the extent that you add symptomatic ulcers
- 11 to the end point then --
- A. Yes. vou're right. 12
- 13 Q. -- the withdrawal of them is no longer relevant as to
- informative censoring, correct? 14
- A. It's already considered as a data point. 15
- Q. Right. So let me say it again for the record to be clear. 16
- 17 So if you used a combined end point of complicated ulcers and symptomatic ulcers, then the withdrawal of people 18
- 19 that got symptomatic ulcers is no longer a concern as to
- 2.0 informative censoring?
- 21 A. What you're saying is logical. I am not completely sure that
- 22 I understand the definition of informative censoring. It's
- something that I'm -- I'm not a statistician and I'm not a 2.3
- clinical trial designer and so I'm not completely comfortable 24
- with the definition of that. So, for example, if -- it may 25
- be that if a patient -- I don't know what it means. It 1
- doesn't even logically make sense to me. What does informed 2 censoring mean? If it means the patient has a symptom and is 3
- then informed that that might be an ulcer developing and they
- drop, I guess that would be one definition of it; that is,
- you're taking out patients partly because you're informing 6
- 7 them and they're saying, Well, gee, if this symptom might be 8
 - an ulcer, I'd like to come off the trial.
 - I think one of the problems with this trial, with recent trials, is that because of the earlier work that was
- done, partially by me and partially by hundreds of other 11 12 people, we got a pretty good idea for what happens to these
- 13 patients. And people got a little skittish about putting
- 14 people on these trials. You know, you don't want a doctor to
- 15 put just anybody on, and if somebody defined like, My
- goodness, the guy's 88, he's had a known previous heart 16
- attack, he's had bleeding ulcers. I don't want him on the 17
- 18 trial, that's what happened increasingly in these trials
- 19 compared to trials that were done 20 years before. But my
- 20 concept would be that if you include symptomatic ulcers then
- 21 you're correcting for that part of the informative censoring,
- but I'm not an expert in that. 22
- 23 Q. Okay. So you have some understanding of informative
- 24 censoring but you're not sure that it's a comprehensive
- 25 understanding?

9

10

- 1 A. Correct
- Q. Okay. But pursuant to your understanding of informative
- censoring then, would the inclusion of symptomatic ulcers as
 - a combined end point correct for any informative censoring
- due to withdrawal of people that had symptomatic ulcers? 5 MR. WEISS: Object to the form of the
 - question.
 - THE WITNESS: I'm afraid you have to ask
- the question again.
- Q. (BY MR. MONTGOMERY) All right. Let me ask you again. 10
- Pursuant to your understanding of informative 11
- 12 censoring, would including symptomatic ulcers in a combined
- end point correct for any informative censoring caused by the 13
- 14 withdrawal of patients who suffered symptomatic ulcers?
- 15 MR. WEISS: Object to the form of the
- auestion. 16

17

19

22

- THE WITNESS: Well, I was thinking that
- you still wind up at the end of six months having dropped out 18
 - a bunch of patients. You would have to say that you would
- 20 have to look after six months at end points including
- 21 symptomatic ulcers because you have just dropped a bunch of
 - the people who could get -- who could get the complicated
- 23
- Q. (BY MR. MONTGOMERY) Right. But if you include a symptomatic 24
- 25 ulcer as part of your end point, it doesn't matter whether
- 1 you got a complicated ulcer or a symptomatic ulcer, correct?
 - It still counts as one, so --2
 - 3 A. But you're asking does that affect informative censoring?
 - Q. Well, does it correct for it to the extent that there is
 - informative censoring that you can ascribe to people dropping
 - out because of symptomatic ulcers? 6
 - A. Well, I guess my answer would be yeah, as long as you
 - 8 continue looking at the symptoms.
 - 9
 - A. If you say, Hey, in the first six months we're going to look 10
 - at symptoms and complications, then at the end of six months 11
 - 12 we're just going to look at complications, I would say no,
 - 13 you still have the problem because you've taken out all the
 - symptomatic ulcers. If you say, From six to 12 months or 14
 - beyond six months we're going to look at symptomatic ulcers 15
 - and ulcer complications, I think it does, logically to me, 16
 - does go some way to correcting for the problem. 17
 - Q. Okay. And is it your understanding that that's what you in 18
 - fact did, you looked at the combined end point for the entire 19
 - 20 study period?
 - 21 A. Yes.
 - 22
 - 23 A. I'm not saying when we did, but at some point the combined
 - 24 end point was looked at at six months and for the entire
 - 25 study period

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September 29, 2010

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1	Q. And so pursuant to what you just testified for, then that, to	1	MR. WEISS: Object to the form of the	
2	your understanding, would correct for any informative	2	question.	
3	censoring that you can ascribe to symptomatic ulcers?	3	THE WITNESS: Yes.	
4	MR. WEISS: Objection to the form of the	4	Q. (BY MR. MONTGOMERY) Okay. And what was that based on?	
5	question.	5	A. The same thing I've been saying, which is, looked at it the	
6	MR. BUSHOFSKY: Objection to the form of	6	other way, when you look at patients who have the	
7	the question.	7	complications and you say that, let's say 50 percent of them	
8	THE WITNESS: I suspect I'm not exactly	8	have had symptoms, if you eliminate patients with symptoms	
9	following where everybody is.	9	you're going to be reducing the number of patients that	
10	MR. BUSHOFSKY: You can go ahead and	10	develop any complication.	
11	answer.	11	And therefore, if you're eliminating all the people	
12	THE WITNESS: So I would say that it	12	with symptoms, you're removing the susceptible group. And in	
13	would it would help the portion of informative censoring	13	addition to that, I told you earlier that I think symptoms	
14	which is occurring because of symptomatic ulcers, yes, it	14	are, in the purpose of sitting in this room, are easy to	
15	would improve that problem.	15	define. They're not that easy to define when you're dealing	
16	Q. (BY MR. MONTGOMERY) Okay. Now let's talk about the censoring	16	with a patient. Every one of these patients is different.	
17	that's caused by the GI symptoms.	17	Picture somebody in your family and you're asking them	
18	The informative censoring theory with regard to GI	18	questions and having them go around in circles about whether	
19	symptoms is premised on the idea that people that suffer GI	19	you have it.	
20	symptoms would have been more likely to go on and suffer	20	So I think that if you do a careful question that	
21	ulcer complications, correct?	21	people with these ulcer complications, probably even more	
22	MR. WEISS: Object to the form of the	22	than 40 or 50 percent have symptoms, antecedent symptoms in	
23	question.	23	the 30 days prior to presenting with a complication.	
24	THE WITNESS: I would look at it	24	THE VIDEOGRAPHER: Counsel, there's about	
25	again, I'm looking at it back the other way; that if the	25	10 minutes left on the tape.	
	102			104
1	people have complications that somewhere between, you know,	1	MR. MONTGOMERY: Okay.	
2	30 and 90 percent of them have symptoms, and therefore if you	2	Q. (BY MR. MONTGOMERY) Do you know whether any empirical	
3	eliminate all the patients that have symptoms you are going	3	analysis was done of the CLASS data to see if in fact the	
4	to reduce the number of people with complications.	4	people in the study who suffered GI symptoms were more likely	
5	Q. (BY MR. MONTGOMERY) Okay. But now I'm asking you to look at	5	to suffer ulcer complications?	
6	it my way, which is: For the informative censoring to be a	6	MR. WEISS: Object to the form of the	
7	valid theory with regard to GI symptoms, is it necessary that	7	question.	
8	people that suffer GI symptoms would have been more likely to	8	THE WITNESS: That's a reasonable	
9	go on and suffer an ulcer complication?	9	question but by definition can't be answered, because if they	
10	MR. WEISS: Object to the form of the	10	were taken off the study then you don't know what would	
11	question.	11	happen to them and that's what happened.	
12	THE WITNESS: Yes.	12	Q. (BY MR. MONTGOMERY) But not everybody that suffered GI	
13	Q. (BY MR. MONTGOMERY) All right. And at the time of this	13	symptoms withdrew from the study, correct?	
14	report, were you did you have an understanding that that	14	A. I don't know that. I don't remember that. Perhaps you can	
15	was in fact true?	15	find that somewhere. I know everybody with a symptomatic	
16	MR. BUSHOFSKY: Objection; form.	16	ulcer withdrew from the trial. I don't remember how many	
17	THE WITNESS: I'm sorry. "True" meaning?	17	people with symptoms withdrew and how many people with	
18	Q. (BY MR. MONTGOMERY) Let me just say it a different way.	18	symptoms stayed on the trial.	
19	At the time of the final report, for example, did you	19	Q. I think we're going to go back to Exhibit 61 to answer that	
20	have an understanding that in fact people who suffered	20	question but it's going to take me a second to find it.	
21	symptom I'm sorry.	21	All right. I think it's on page Bates ending 855 of	
22	At the time of the final report did you have an	22	Exhibit 61.	
23	understanding that people who in fact suffered GI symptoms	23	A. I have 855.	
24	would in fact be more likely to go on and get an ulcer	24	Q. All right. Do you see the first full paragraph at the top	
25	complication?	25	there?	



September 29, 2010

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	105	5	107
1	A. I'm sorry. Oh, 854. Excuse me. I was on the wrong page.	1	Q. And when did that happen?
2	Yes.	2	A. I don't remember.
3	Q. All right. Do you see the first full paragraph that starts	3	Q. Did it happen before or after the unblinding of the data?
4	"GI complaints"?	4	A. I think actually before, but I don't exactly remember, but
5	A. Oh, this I'm sorry. This document is out of order. It's	5	sometime in that period of time it was said, We'll do a
6	not maybe my brain is out of order. I am now on 855. I'm	6	six-month analysis.
7	sorry. "GI complaints will be collected and analyzed."	7	Q. Before the data was unblinded, why would you think that a
8	Yes, I see that paragraph.	8	six-month analysis was a good idea?
9	Q. Why don't you read that paragraph to yourself and let me know	9	A. Because the it was clear that something had happened.
10	when you're done.	10	That was the whole reason for stopping the trial that
11	A. (Witness complies.) Okay.	11	something had changed and I think that the idea would be,
12	Q. Does this refresh your memory about whether or not people	12	Let's look at six months. Let's look at the rest of it. I
13	with GI symptoms would remain in the study?	13	mean we got to figure out why there seems to be a change in
14	A. Well, I think what it says is that patients who report GI	14	the curve.
15	symptoms, if they're endoscoped to have an x-ray and there's	15	Q. And is that something that the executive committee
16	no evidence of an ulcer, can then participate, but it doesn't	16	communicated to Pharmacia?
17	address the issue about how often it happened. They may	17	A. I don't remember that. I think it was pretty obvious to
18	continue to participate, but somebody may have said, Look, I	18	everybody, and I don't remember specifically communicating
19	don't care whether you saw an ulcer or not, I want to come	19	that to Pharmacia.
20	off the study because I don't feel well. And I don't know	20	Q. Well, if you're going to do a six-month analysis, was the
21	how often that happened.	21	executive committee going to do it itself
22	Q. Okay. We'll pursue that later on in the final report then.	22	A. Oh, no.
23	All right. Going back to final report, Exhibit 66, please.	23	Q or was it going to have Pharmacia do it?
24	A. Yes.	24	A. Oh, no. I'm sorry. No, it would have Pharmacia do it but I
25	THE VIDEOGRAPHER: About seven minutes.	25	think Pharmacia also wanted to do it. So I don't remember
	106		108
1	MR. MONTGOMERY: Let's just go off the] 1	that we told them to do something that they wanted to do too,
2	record and change the tape.	2	they just did it.
3	THE VIDEOGRAPHER: We are going off the	3	Q. All right. So going back to this page, you said the reasons
4	record. The time is 11:39 a.m. This is the end of Tape	4	that are enumerated we talked about before, there's
5	No. 2.	5	informative censoring and then there's aspirin use as well,
6	(Recess 11:39-11:46.)	6	correct?
7	THE VIDEOGRAPHER: All right. We are	7	A. Correct.
8	back on the record. The time is 11:46 a.m. This is the	8	Q. Are there any other aspects or results of the trial that
9	beginning of Tape No. 3.	9	justify a six-month analysis?
10		10	MR. WEISS: Sorry. Could you just repeat
11	EXAMINATION (Continuing)	11	that question?
12	BY MR. MONTGOMERY:	12	(Question on Page 108, Lines 8
13	Q. You understand you're still under oath?	13	through 9, read by the
14	A. I do.	14	reporter.)
15	Q. All right. Let's go back to Exhibit 66. We were talking	15	MR. MONTGOMERY: Let me ask the question
16	about the page Bates number ending 116 that discusses	16	again because I didn't mean to say adjustments. Did I say
17	informative censoring. Do you recall that?	17	that?
18	A. Yes, I do.	18	THE REPORTER: That's what I heard.
19	Q. All right. So part of informative censoring, the discussion	19	MR. MONTGOMERY: That's okay.
20	here is as a reason for the six-month analysis?	20	Q. (BY MR. MONTGOMERY) Were there any other aspects or results
21	A. Yes.	21	of the CLASS study that justified a six-month analysis?
22	Q. And did the executive committee ever make a decision that the	22	MR. WEISS: Object to the form of the
23	six-month analysis or that a six-month analysis should be	23	question.
24	performed of the CLASS data?	24	THE WITNESS: It was my understanding
25	A. I believe we did.	25	from the get-go that it would be analysis done at six months,
1		1	



September 29, 2010

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1	before even the trial occurred that there would be an	1	censoring or whether there were other reasons for people	
2	analysis at six months. And then there was the issue about	2	dropping out.	
3	why it had changed, what had happened, and wanting to look	3	For example, lack of efficacy. I think there was some	
4	back over the first six months versus the additional data.	4	mention made that and I haven't read about this recently,	
5	But you also mentioned aspirin, and I don't think aspirin is	5	but that the ibuprofen wasn't working for patients with	
6	part of the problem with aspirin is not part of the	6	arthritis and therefore they were taken off the study. So	
7	informative censoring as I understand. So you kind of put	7	that that was another reason that the groups were changing	
8	that in your lead in to the question.	8	at six months but not related to informative censoring	
9	Q. (BY MR. MONTGOMERY) Let me ask it a different way then.	9	because of symptoms. That's the best I can come up with.	
10	Is aspirin a different reason besides informative	10	Q. (BY MR. MONTGOMERY) Let me try this a different way: Is it	
11	censoring that you believe the data from the first six months	11	your understanding that as a result of informative censoring	
12	of the study is superior to the data after six months?	12	the data after six months from the CLASS trial is more biased	
13	MR. WEISS: Object to the form of the	13	than the data before six months?	
14	question.	14	A. Yes.	
15	THE WITNESS: No, I don't think so, at	15	Q. Okay. Other than informative censoring, do you have any	
16	least not as I understand it. The issue with aspirin	16	reason to believe I'm sorry.	
17	should we talk about that for a moment or do you want to do	17	Do you have any other reason besides informative	
18	that later?	18	censoring to believe that the data after six months was more	
19	Q. (BY MR. MONTGOMERY) Not really. Okay.	19	biased than the data before six months?	
20	A. Well, you know.	20	A. Well, the other factor would be lack of efficacy of the drug	
21	Q. All right. Then is it your understanding that as a result of	21	from a rheumatologic standpoint, and therefore people with	
22	the informative censoring that the data the results of the	22	worse arthritis and one of the factors in GI bleeding that	
23	CLASS study are better before six months than after six	23	we learned from these previous studies I told you about is	
24	months?	24	that the patient's underlying condition is related to the	
25	MR. WEISS: Object to the form of the	25	risk of bleeding and is related to the outcome of the	
	·	+		_
	11			112
1	question.	1	bleeding episode, and therefore somebody with worse arthritis	
2	THE WITNESS: Yes, that's correct.	2	for whom the ibuprofen wasn't working might come off the	
3	Q. (BY MR. MONTGOMERY) Okay. Other than informative censoring	3	study. And that might be somebody who in fact was at	
4	is there any reason to believe that the data after six months	4	increased susceptibility.	
5	is better than the data let me do it again. Other than informative censoring is there any reason	5	So the informative censoring I would say would be the	
6	,	6	symptoms; dropping the patients off of the study because they	
7	that you know of to believe that the data before six months is better than the data after six months?	7	weren't responding to the medication would have the effect of	
8		8	potentially dropping patients with worse underlying arthritis	
9	MR. WEISS: Object to the form of the	9	who might also be at increased risk of developing a	
10	question.	10	complication.	
11	THE WITNESS: The only thing that occurs		Q. Okay. So other than informative censoring and the efficacy	
12	to me is the fact that the benchmark that we have for these	12	issue that you just described, do you have any reason to	
13	studies is in fact six months, and I think subsequent to the	13	believe that the data after six months from the CLASS study	
14	CLASS trial, which of course doesn't answer your question	14	was more biased than the data before six months?	
15	directly, that's been borne out that I think most of the		A. No.	
16	trials have in fact been six months. So in other words, what		Q. Okay. Would does the fact that patients were required to	
17	I'm saying is I think I, for example, am most comfortable	17	take a minimum of six months of the drug make the six-month	
18	with six months of data. We did that in the mucosa trial and	18	data more reliable than the entire study data?	
19	at six months in the CLASS trial I was comfortable with that.	19	MR. WEISS: Object to the form of the	
20	I don't know of any other unless I'm blocking it out, I	20	question.	
21	don't know of any other reason than informed censoring it	21	THE WITNESS: Well, let me think. Well,	
22	was that it was that patients were dropping out of the	22	I don't see why that would be because you would have the	
23	trial in disproportionate numbers in the first six months	23	first six months data on the people who continued to be on	
24	such that the groups were no longer comparable. I'm trying	24	six months anyway. I mean I told you that I'm comfortable	
25	to remember in my brain whether that's all informative	25	with six months but I don't see I don't see if you had	



Fred Silverstein

September 29, 2010

1	all the data you would know what happened in six months. So
2	I'm not sure exactly what the question was but it's not clear

3 to me.

4 Q. (BY MR. MONTGOMERY) All right. Let me ask it again.

A. Okay.

Q. The patients -- in order to be counted in the study, patients

7 had to take whatever drug they were on for at least six

months, correct?

9 A. Correct.

MR. WEISS: Object to the form of the

11 question.

1.0

12 MR. BUSHOFSKY: Objection.

Q. (BY MR. MONTGOMERY) And is there any reason why that fact
 alone would make the analysis of the six-month data superior
 to the entire data set?

16 MR. WEISS: Object to the form of the

17 question.

THE WITNESS: Well, you know, it – from
a nonexpert in statistics and nonexpert in clinical trial
design, which I am purporting to be, it would make better
sense that if everybody made it to six months, we'll look at
six months. Rather than people who made it to eight months,

23 nine months, 12 months, you know -- so in that sense I'm

24 comfortable with the first six months of data.

 $\,$ 25 $\,$ Q. (BY MR. MONTGOMERY) My question is not, A, whether you're

1 A. Yes.

2 Q. All right. And I'd like you to take a look on Table 1, the

bottom, the number on the bottom right-hand corner 0.037; do

4 you see that?

5 A. I do.

8

6 Q. Can you tell me what that number represents?

7 A. Well, with my earlier disclaimers about statistics, I guess

it's the P value for the 26-week group rate comparing

9 celecoxib to diclofenac and ibuprofen for both together.

10 Q. And that's in patients not taking aspirin during the first

11 six months; is that right?

12 A. No, no. Where -- I don't know that that's the case

Q. Just take a look at Table 1, where it says Table 1 at the

14 top.

15 A. Right.

16 Q. Summary of CSUGIE incidence for six months.

7 A. I see that, but I don't see where the -- oh, no. I'm sorry.

18 Excuse me. I see it now.

19 Q. That's no problem.

20 A. All patients and patients not taking aspirin, yes. So it is

21 statistically significant for both groups below .05, P value

22 of .05, okay.

Q. So this is -- just to restate: That result shows that there

24 was a statistically significant difference between Celebrex

and the combined NSAIDs in the first six months in the

comfortable, or B, about seven or nine months or 10 months.

My question is very specific as to: Does the fact that there

was a minimum treatment period of six months make the

six-month analysis in any way better or more reliable than

the entire data set based on that fact alone?

6 MR. WEISS: Object to the form of the

7 question.

1

2

8

10

16

18

THE WITNESS: You know, I -- I have to

9 say I don't know. I don't know the answer to that. It's a

fair question but I don't know the answer.

11 Q. (BY MR. MONTGOMERY) Let me ask you a different way then.

Do you have any reason to believe that just because
there was a six-month minimum treatment period that that
would make the six-month analysis any better than the entire

data set analysis?

MR. WEISS: Object to the form of the

17 question.

THE WITNESS: No. I don't. I don't.

19 Q. (BY MR. MONTGOMERY) All right. Can you turn to Page -- let's

go to page Bates number ending 117 of Exhibit 66.

21 A. Okay.

Q. Do you see Tables 1 and 2 on that page?

23 A. I do.

 $_{\rm 24}$ $\,$ Q. All right. And do these summarize some of the results of the

25 CLASS study?

subgroup of patients taking aspirin, right?

2 A. Not taking aspirin.

 $_{\rm 3}$ $\,$ Q. I'm sorry. Let me say it again.

4 That number shows that there's a statistically

significant difference between Celebrex and the combined

6 NSAIDs in the first six months in patients not taking

7 aspirin, correct?

8 A. Yes

5

9 Q. Okay. Now let's look at Table 2. Do you see that that's --

has the results from the entire study period?

11 A. Yes.

12 Q. All right. I'd like you to take a look at the same result in

the lower right-hand corner, .185; do you see that?

14 A. Yes, I do.

Q. And that's not statistically significant, correct?

16 A. That is correct.

Q. And so for the entire study period in patients not taking

aspirin, there was no statistically significant difference

between Celebrex and the combined NSAIDs, correct?

20 A. I guess that's true, yes.

Q. All right. And then on -- take a look at the next page,

please, Bates ending 11 --

23 A. Although I --

24 Q. Sure.

25 A. It's not exactly what my memory is. I'd like to -- let me



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116

1

Fred Silverstein

September 29,

119

1	read the bottom of that table.
2	Q. Sure.
3	A. Okay. All right. It doesn't change
4	Q. Okay. Would you take a look at

- ge what you said.
- the next page, Bates ending
- 118 of Exhibit 66
- A. Okay
- Q. Do you see there are two more tables there, Table 3 and
- Table 4?
- 10 Q. And those are more summary results of the study?
- 11
- Q. All right. So all the tables that we've looked at have 12
- comparisons between diclofenac specifically and Celebrex, 13
- 14 don't they?
- A. Yes. 15
- Q. All right. And so in total there's eight different
- comparisons in the tables we just looked at between Celebrex 17
- specifically and diclofenac, correct? 18
- 19
- Q. All right. And are any of those comparisons statistically 20
- 21 significant?
- 22 A. Nope.
- Q. Okay. 23
- A. That's not the way I read it.
- Q. Okay. Would you turn to page Bates ending 120 of Exhibit 66, 25

- had terrible headaches on a drug they'd be off the study. I
- 2 mean that -- and that would cause a bias. Perhaps you're
- trying to pick something which is obvious, but...
- Q. No, that's fine. All right. Would you take a look at
- dyspepsia?
- A. Right.
- Q. Adverse events for Celebrex?
- A. Yes.
- Q. And that's 16.5, correct?
- 10
- Q. And do you know what that number represents? Is it a 11
- 12 percentage?
- A. I believe it's a percent of patients. 13
- Q. Okay. Would you turn the page now to Table 9. 14
- 15
- Q. And Table 9 display adverse events causing withdrawal with 16
- incidents greater than one percent in any treatment group? 17
- 18
- 19 Q. Okay. And do you see, let's see, under dyspepsia for
- 20 Celebrex --
- A. Right. 21
- 22 Q. -- it's 3.8 percent?
- 23 A. Right.
- 2.4 Q. So does that mean that, comparing these two numbers, that
- 25 somewhat over 12 percent of the people who suffered dyspepsia

A. (Witness complies.)

please.

- Q. Do you see Table 8 at the bottom?

1

- Q. All right. And does Table 8 display the five most frequently
- reported adverse events for the entire study period? 6
- Q. And one of those events is a URTI; is that right?
- A. Yes. 9
- Q. What is that? 10
- A. I think it's upper respiratory tract infection, but I don't 11
- 12 know. TGDMA. I'm sorry; that means too many abbreviations.
- 13 I think it would be okay to write out the word. So I assume
- 14 this is an upper respiratory tract infection.
- Q. Let's just look at headache, for example, then. 15
- A. Okav. 16
- Q. We both at least know what that is, right? 17
- A. I think so
- 19 Q. Okav. First of all, the adverse events in Table 8 are for
- 20 the entire study period, correct?
- 21
- 22 Q. And is there any reason to believe that the adverse events
- 23 for headache, for example, became biased at all after six
- 24
- A. Only in the sense that if the person in the first six months 25

- as an adverse event stayed in the study, or at least didn't 1
- withdraw as a result of dyspepsia? 2
- A. Let me see if I agree with you about that. 3
- So Table 8 shows that in the entire study 16 percent of
 - people reported dyspepsia on celecoxib, and Table 9 shows
- that in the entire -- I assume it's the entire study, it 6
- doesn't say, that 4.3 percent of patients on Celebrex came
- 8 off the study because of dyspepsia.
- Q. Actually I believe the number is 3.8. 9
- A. Oh, excuse me -- 3.8, right, correct. 10
- Q. Okay 11
- 12 A. Okay.
- 13 Q. So my question is then: Does that indicate to you that there
- were people who had dyspensia in the study that didn't 14
- 15 withdraw because of dyspepsia?
- A. Well, I'm not sure that's true. And what I mean is events 16
- causing withdrawal, so you could say that 3.8 percent of 17
- people on Celebrex came off the trial because of dyspepsia, 18
- but they might have come off the trial for something else. 19
- 20 In other words, if a person with -- but come off the trial 21
- because of diarrhea. So in other words, I'm saying I'm not 22 completely clear that because you have the event and because
- 23 you come off the event you can exactly say that's the same
- 24 thing. It's saying that 16 percent of people had dyspepsia,
- 3.8 percent of people withdrew because of dyspepsia, but is 25



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September 29, 2010

Fred	l Silverstein		September 29, 20	010
	121		-	123
1	it possible that a bunch of those people with dyspepsia	1	who came in, 1600 were withdrawn and of those adverse	
2	withdrew but not because of the dyspepsia, they withdrew	2	Q. You don't have to read all the numbers if you don't want to.	
3	because of a gastric ulcer or abdominal pain?	3	A. Okay.	
4	So that's why I'm saying I can't make the simple	4	Q. But generally speaking, does Figure 7 A show what happened to	
5	mathematical jump that you proposed.	5	all the people that entered the study?	
6	Q. Let me ask it in a more common sense way.	6	A. Yes, I think so.	
7	Based on these numbers, would you expect that there	7	Q. Okay. At the bottom it says? N equals 4573 patients	
8	were people that completed the study despite suffering	8	completing six months."	
9	dyspepsia at some point during?	9	Do you see that?	
10	MR. WEISS: Object to the form of the	10	A. Yes.	
11	question.	11	Q. And what does that mean?	
12	THE WITNESS: You know, because of what	12	A. That takes the boxes, the three boxes that say N equals 2376,	
13	I'm saying I don't know that I can say that. I don't know	13	1148 and 1049, that adds up to 4573.	
14	that.	14	Q. So does that mean that 4573 patients completed at least six	
15	Q. (BY MR. MONTGOMERY) Okay.	15	months of the study?	
16	A. That's a fair question, but I don't think I can look at this	16	A. That's what it looks like to me.	
17	data and tell you that.	17	Q. But some of them would have gone on to have more than six	
18	Q. All right. Could you look at page Bates ending 145 of	18	months of exposure, correct?	
19	Exhibit 66.	19	A. Correct.	
20	A. (Witness complies.) Okay.	20	Q. Okay. And can you look at page Bates number ending 170 of	
21	Q. Do you see the bottom section discusses the treatment period?	21	Exhibit 66.	
22	A. Yes.	22	A. Right.	
23	Q. And according to the final report what's the treatment	23	Q. And do you see Figure 7 B there?	
24	period?	24	A. I do.	
25	A. Excuse me one second. Are these duplexed? I got these a	25	Q. And so Figure 7 A that we just looked at, does that show the	
	122			124
1	little screwed up. Just give me one second. Okay. I'm not	1	disposition of patients just for the first six months?	
2	sure that's in order. Excuse me. So the treatment period.	2	A. Yes.	
3	So what is the question, please?	3	Q. And Figure B shows the same information but for the entire	
4	Q. Pursuant to the final report what is the treatment period?	4	study period, correct?	
5	A. It was the period during which the medication was taken.	5	A. Yes.	
6	Q. And what was that?	6	Q. At the bottom there it says "N equals 3409 patients	
7	A. Well, at least six months and for some people longer than six	7	completing the study."	
8	months, or until the trial concluded.	8	Do you see that?	
9	Q. All right. Would you turn to page Bates ending 168 of	9	A. I do.	
10	Exhibit 66.	10	Q. And what does that represent?	
11	A. (Witness complies.) Okay.	11	A. The number of people who made it through the entire study	
12	Q. Do you see Figure 7 A?	12	period which means they came off because of an adverse event	
13	A. I do.	13	or they completed at least six months and then went sometime	
14	Q. And what does Figure 7 A show?	14	beyond that which was I believe unspecified, or they made it	
15	A. So it looks at what happened to patients coming in, where	15	to 13 months and or beyond 12 months and they were taken	
16	they went in the first six months, and it shows that there	16	off the study, or the study closed after they had completed	
17	were a total of 8059 patients randomized, almost all of	17	six months.	
18	those, 7968 took the study medication. They were divided up	18	Q. Okay. And the fact that you did a six-month analysis of the	
19	into celecoxib, diclofenac and ibuprofen in the numbers	19	data doesn't change the fact that only 3409 patients	
20	shown, approximately 4,000, 2,000, 2,000. It shows that 2300	20	completed the study, correct?	
21	of the 3900 completed six months with celecoxib. 1148	21	MR. WEISS: Object to the form of the	
22	completed six months on diclofenac and 1049 completed six	22	question.	
23	months on ibuprofen. And I don't have a calculator with me	23	THE WITNESS: I'm sorry; ask the question	
1		I		



but I don't know the percentages of that from this. And then

we looked at -- of the people who, for example, on Celebrex

24

25

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Q. (BY MR. MONTGOMERY) Sure. The fact that you chose to perform

Fred Silverstein

September 29, 2010

a six-month analysis doesn't change the fact that 3409 patients completed the study? MR. WEISS: Same objection. 4

Q. (BY MR. MONTGOMERY) All right. Would you look at page Bates number ending 177 of Exhibit 66.

A. Okay.

Q. Do you see Figure 8 A?

9

1.0 Q. All right. In the lower right-hand portion of Figure 8 A do

11 you see, "N equals 260, reviewed by all GEC members"?

A. I'm sorry. No, I don't see that. Where is that? 12

Q. You have Figure 8 A. right? 13

A. I'm at Figure 8 A. 14

Q. The lower -- on the right side of it there's -- there are 15

three boxes; do you see that? 16

17 A. Yeah

Q. The top box says --18

A. Oh, 260 reviewed by all GEC members. But I don't know what 19

that is yet so let me look and just see. So potential 20

21 complications in 1100 people. In 900 they were reviewed by

one person and in 260 they were reviewed by everybody. Of

23 the 900 almost all were felt to not be events and only one

made it across. Okay. 24

Q. Okay. So what does that box mean, "N equals 260 reviewed by 25

127 A. Well, no. The GEC, entire GEC reviewed those. One member at

least reviewed the other thousand as well.

Q. All right. Let me put it -- or correct it then.

So does this mean that the entire GEC reviewed the

records of 260 patients?

A. That's correct.

Q. Okay. Can you turn to Bates number ending 288, please, of

Exhibit 66.

9 A. Okav.

10 Q. Do you see Table 10b?

A. Oh, 288. Excuse me. I thought you meant 188. Table 10b, 11

12

13 Q. And does Table 10b disclose the adverse events with incidence

14 greater than or equal to three percent in any treatment group

15 for the entire study period?

16

Q. All right. Is there any reason to believe that the 17

information set forth in this table is in any sense more 18

19 reliable at six months rather than in the entire study

20

21

2.4

MR. WEISS: Object to the form of the

22 question.

23 THE WITNESS: Is there any evidence that

the data in this table would be more reliable at six months

25 than at the entire study period? No, not reliable. I mean

all GEC members"? 1

A. Right. Well, I think you have to go back up one or two

phases. I think that where the doctor or the patient

reported a possible complication they had to be adjudicated.

The doctors didn't know what we were calling a complication.

So the person might have had belly pain or they might have 6

7 vomited up a little blood or they might have had a hemoccult

8 positive stool and they referred that patient in as a

potential complication. 9

10

11

12

13

15

At first screening a thousand of them were felt probably not to have it because they didn't have the data, and in fact they were -- almost all of them were thought to be negative events. So if the person, for example, had three

14 hemoccult stools and one was positive and two were negative

16 vomited blood, never had an endoscopy showing an ulcer, that

and never needed a transfusion, never had black stools, never

was considered negative. But the 260 were the ones who were 17

adjudicated by the whole committee and they were thought to 18

19 be -- possibly be a complication, and then the next, the

20 bottom one suggests that 35 were thought to be and 225 were

21 thought to not be

Q. So what does GEC stand for? 22

23 A. The Gastrointestinal Events Committee.

24 Q. So did the box that I showed you indicate that the GEC

reviewed the cases of 260 patients? 25

the data should be the data 1

Q. (BY MR. MONTGOMERY) All right. I'm done with Exhibit 66 for

now but we're probably going to go back to it occasionally so

you want to keep that one handy.

A. Okay.

MR. BUSHOFSKY: It's quarter after.

Q. (BY MR. MONTGOMERY) Do you recall after the CLASS study was

complete when you first saw the results?

A. You know. I don't.

Q. Do you recall how, in what form you first saw the results? 10

11

17

23

12 Q. Was there a big meeting that you can recall where you

discussed the results for the first time? 13

A. Well, there was a meeting that I could not attend and I don't 14

15 know if that qualifies -- no, there was not a big meeting

16 where we saw the results for the first time. I think I heard about them prior to that. But there was a meeting of the

whole group and, you know, your division into the three 18

19 different committees pursuant to that final report is fine,

20 but it really was a bunch of consultants who were committed

21 to putting a lot of work into making the study work. And

22 there was a meeting I could not attend so I missed it, in

which the data was considered for a whole day and I did not

2.4 attend that meeting, but the answer to your question about

25 whether there was a meeting in which the data was, here it



Fred Silverstein

September 29, 2010

is, I don't remember. I don't think there was.

Q. I'm going to show you what's previously been marked as

Exhibit 65. Have you ever seen Exhibit 65 before?

A. I don't think so.

Q. Okay. Do you see on the bottom right-hand corner of the

first slide it says March 20th, 2000?

7 A. The right hand of the first slide.

Q. The slide, not the page.

9 A. Oh, I'm sorry. Yes.

10 Q. Okay. And do you recall -- you can look at it on the top of

your pile there, the study date, according to the final

report, ended March 17, 2000?

13 A. Okay.

14 Q. All right. I'd like you to look at the third page of

Exhibit 65, Bates number ending 864.

16 A. Okay.

Q. Do you see the slide says "Dissemination of CLASS data"?

18 A. I do

19 Q. And under Consultants, were you a consultant?

20 A. I was.

21 Q. All right. And do you see it says "Subgroup by March 31st,

22 committee chairs by April 6th"?

23 A. I see it.

Q. Okay. Does that sound about right to you of when you would

have received the results of the CLASS study?

Q. So it's on or about those days?

A. I think so.

Q. Okay. And did you make a presentation of the CLASS results

to the American College of Physicians?

6 A. I did.

1 A. Yes.

7 Q. Is that also spelled the ACP?

A. Yes, it is.

9 Q. Would you turn to the sixth page of Exhibit 65, 867.

A. The sixth page. I'm sorry. I'm lost. Oh, 867, yes.

11 Q. Do you see the slide there, it says Presentation Strategy?

First entry says "ACP, Fred Silverstein, six-month efficacy

and safety"?

14 A. I do.

Q. So does this indicate to you that the company had already

decided that you were going to present six months of the

17 CLASS data at ACP before you had even seen the results?

18 MR. WEISS: Object to the form of the

19 question.

THE WITNESS: No.

Q. (BY MR. MONTGOMERY) Why is that?

22 A. Because I don't think that's what happened. I mean they may

have said that they wanted me to present the six months of

the data to the ACP, but I think at that point I already had

25 the data.

1 Q. At what point?

A. The point at which I went to the ACP.

3 Q. Oh, yes, I understand that. I'm talking about the date of

4 this document where --

A. So what was the date that we decided when I had heard that --

we all heard the results of the trial?

7 Q. Let's take a look. It's three pages back. Bates number

ending 864 of Exhibit 65.

9 A. Yes

8

Q. And you see it says, "Consultants, subgroup by 3/31,

committee chairs by 4/6"?

12 A. Yes

Q. All right. So this document which is dated March 28th,

14 2000 --

15 A. Right.

16 Q. -- that's before you had the results of the CLASS study.

17 correct?

18 MR. WEISS: Object to the form of the

19 question.

20 THE WITNESS: No, I'm not sure that's

21 correct because I -- I don't remember when I got the results

and it may have been prior to what's listed on this 864

23 slide. I don't know that that's what happened. They may say

it here but it doesn't mean that's what happened. This is a

25 slide and I don't remember exactly when I heard about it. I

suspect I heard about it before then. So I have never seen

this before and therefore I don't know exactly what this is.

Q. (BY MR. MONTGOMERY) All right. Would you turn to page Bates

4 number ending 884 of Exhibit 65.

5 A. Okav.

Q. Do you see this slide says, "GI symptoms are a risk factor

7 for a GI event"?

ο Δ Ves

9 Q. And then you see the relative risk numbers underneath that?

10 A. I do.

11 Q. Do you remember ever seeing this analysis before?

12 A. No, I don't specifically remember seeing this. It's

interesting but I don't specifically remember seeing it.

14 Q. All right.

15 A. I don't remember.

Q. You're not an expert statistician, correct?

17 A. Correct.

Q. But you are an expert with regard to gastrointestinal --

19 A. lam

Q. -- issues, correct? Okay. Can you explain to me under the

relative risk -- well, let's start with the first one, the

NSAIDS it says 5.5. Do you know what that represents?

A. You know, I'm not going to give you a definition of relative

24 risk because I'm not sure I know it.

25 Q. Okav.



September 29, 2010

Free	a Silverstein		September 29, 2	0 ± 0
	133	3		135
1	A. Perhaps I should know it but at this point in my life I'm not	1	you've got a very high risk of developing significant of a	
2	sure I can tell you exactly what a relative risk means	2	GI event on diclofenac much more than ibuprofen. So	
3	significantly. It's obvious an increase in risk.	3	therefore it's more of a predictor on diclofenac than it is	
4	Q. Yeah, let me ask it that way then, skip the fancy statistical	4	on ibuprofen. I'm sorry; that's as best I can do. I don't	
5	analysis.	5	know if that answered your question exactly. If not, ask it	
6	A. Okay.	6	again.	
7	Q. But for the NSAIDs it says 5.5, correct?	7	Q. Let me ask it a different way. All right.	
8	A. I think what it means is that there's a 5.5 times risk of a	8	We have pursuant to this slide, the relative risk	
9	GI event in patients with GI symptoms versus patients without	9	for the NSAIDs combined is 5.5, correct?	
10	GI symptoms on NSAIDs.	10	A. Right.	
11	Q. On NSAIDs. And then the celecoxib or Celebrex it's 2.4,	11	Q. And then the relative risk for diclofenac is 10.1, correct?	
12	right?	12	A. Right.	
13	A. Correct.	13	Q. Ibuprofen is 3.4, right?	
14	Q. As a and the numbers for diclofenac are different from the	14	A. Right.	
15	numbers for ibuprofen; is that correct?	15	Q. All right. If you personally were going to try and look at	
16	A. Correct.	16	this informative censoring theory and investigate the	
17	Q. Now, as a gastroenterologist do you know of any reason to	17	association between symptoms and ulcer complications, which	
18	believe that the risk of a GI event in somebody with GI	18	of those numbers would you use?	
19	symptoms should be higher in diclofenac as opposed to	19	MR. WEISS: Object to the form of the	
20	ibuprofen?	20	question.	
21	A. Yes, and the reason is that diclofenac is more injurious than	21	THE WITNESS: Well, it's most clear for	
22	ibuprofen is. And so, for example, if you were to say that	22	diclofenac. I mean what you can say is if patients who have	
23	people who take NSAIDs can develop symptoms partially because	23	moderate symptoms of diclofenac are really at risk of	
24	of a motility abnormality and/or a cerebral effect which I	24	developing an adverse GI event more so than ibuprofen.	
25	mentioned, in two percent of people, in three percent of	25	That's what I would say, and more so than celecoxib.	
	134			136
1	people, but that in diclofenac the seven percent more who get	1	MR. MONTGOMERY: Okay. What's our time?	
2	it from real irritation of the stomach or duodenum then you	2	MS. McPHEE: About 12:30.	
3	could say that diclofenac has got the moderately severe GI	3	MR. MONTGOMERY: All right. Let's go off	
4	symptoms caused both by motility and by inflammation,	4	the record, please.	
5	ibuprofen is just the motility.	5	THE VIDEOGRAPHER: We are going off the	
6	So in other words, I don't think you can say it's	6	record. The time is 12:29 p.m.	
7	clearly because diclofenac is more injurious but I have to	7	(Recess 12:29-1:21.)	
8	go back to your question again. I lost myself a little bit.	8	THE VIDEOGRAPHER: Okay. We are back on	
9	Q. Sure. We're talking about the association between GI	9	the record. The time is 1:21 p.m.	
10	symptoms and ulcer complications.	10		
11	A. Yes, what I'm saying is GI symptoms are not the same	11	EXAMINATION (Continuing)	
12	necessarily; that if somebody is complaining, My stomach is	12	BY MR. MONTGOMERY:	
13	gurgling and I feel an unease in my stomach, it's not as	13	Q. You understand you're still under oath?	
14	severe as somebody saying, I've got a burrowing pain right	14	A. I do.	
15	here in my epigastrium, or, The top of my stomach is killing	15	Q. All right. Going back to informative censoring theory that	
16	me. So I'm saying that I think that it means that diclofenac	16	we were talking about earlier. Is it your understanding that	
17	is more injurious and more likely to cause a GI event than	17	GI symptoms are predictive of ulcer complications?	
18	ibuprofen is, which is what the common knowledge was going	18	MR. BUSHOFSKY: Object to the form.	
19	into this trial.	19	THE WITNESS: No, not if you're asking	
20	Q. Right. I understand that diclofenac is more likely to cause	20	me if I feel that way?	
21	a GI event but is diclofenac are patients I'm sorry.	21	Q. (BY MR. MONTGOMERY) Yeah.	
22	Are GI symptoms a better predictor of ulcer complications on	22	A. Not really because let's go over it again, at least in my	
23	patients with taking diclofenac?	23	head.	
24	A. Well, I don't know if I can answer it from this slide. This	24	100 patients, 50 of them have GI symptoms, 50 don't.	
I	is a single that if you have needed to be a sure Olay	l		

25



is saying that if you have moderate to severe GI symptoms

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One person is going to get -- or two people are going to get

September 29, 2010

Fre	d Silverstein		September 29, 20	010
	137			139
1	a complication. It's more likely to occur in the group of	1	A. I saw it recently. I have never seen this until recently.	
2	symptoms but most of the people with symptoms aren't going to	2	Q. Okay.	
3	get a complication. So that's why it throws everybody off,	3	A. To my knowledge. Again, it was 10 years ago but I don't	
4	that's why but again, looking at it the other way, if	4	remember seeing it.	
5	you've had a complication odds are you did have symptoms. So	5	Q. Fair enough. Can you turn to the second page of Exhibit 67,	
6	you could say if you eliminated everybody with symptoms you	6	please.	
7	should be eliminating or reducing the number of complications	7	A. (Witness complies.)	
8	that occur.	8	Q. The third paragraph that starts, "The study," do you see	
9	Q. All right. Let me ask it a different way then.	9	that?	
10	Pursuant to informative censoring as you understand it,	10	A. Uh-huh.	
11	the CLASS results for ulcer complications became more biased	11	Q. I'm going to read that sentence into the record. It says,	
12	as the trial went on; is that fair to say?	12	"The study funded by Searle and Pfizer, Inc. found that	
13	MR. WEISS: Object to the form of the	13	Celebrex patients experienced significantly fewer GI ulcers	
14	question.	14	and ulcer complications compared with ibuprofen or	
15	THE WITNESS: Yes.	15	diclofenac."	
16	Q. (BY MR. MONTGOMERY) Okay. Is the same thing true with regard	16	A. No, you forgot the word "symptomatic."	
17	to symptomatic ulcers?	17	Q. Oh, I did? I'm sorry.	
18	MR. WEISS: Object to the form of the	18	A. Unless you're reading a different sentence than I am.	
19	question.	19	Q. No, I must have just missed it. Let me try it again.	
20	THE WITNESS: You have to rephrase that.	20	A. Yes.	
21	I don't understand the question.	21	Q. "The study funded by Searle and Pfizer, Inc. found that	
22	Q. (BY MR. MONTGOMERY) Sure. Did the – as the CLASS trial went	22	Celebrex patients experienced significantly fewer symptomatic	
23	on did informative censoring render the results biased	23	GI ulcers and ulcer complications compared with ibuprofen or	
24	sorry. Let me do it again. Strike that.	24	diclofenac."	
25	As the CLASS study progressed, did it become more and	25	Do you see that?	
	138			140
1	more biased with regard to symptomatic ulcers as a result of	1	A. I do.	
2	informative censoring?	2	Q. And is it accurate to say that they experienced fewer	
3	MR. WEISS: Object to the form of the	3	symptomatic or complicated ulcers than ibuprofen or	
4	question.	4	diclofenac?	
5	THE WITNESS: Well, I think if the	5	A. Let's see what this sentence says. Compared with ibuprofen	
6	question then is, if you have I'd say if you have an ulcer	6	or diclofenac. So there were no circumstances in which the	
7	complication there's a good chance that you had symptoms	7	patients were on both so "and/or" would be inappropriate. So	
8	before. The question is if you have a symptomatic ulcer was	8	I'm just trying maybe it's okay. I mean I can see the	
9	there a good chance you had symptoms before you developed a	9	question but the study found there were fewer GI	
10	symptomatic ulcer, and that's a little bit more difficult for	10	symptomatic ulcers and also complications compared with	
11	me to define. I don't know if I can say that. It's almost,	11	patients on ibuprofen or diclofenac. I guess the sentence	
12	you know, symptoms to predict symptoms and that's why it's	12	reads okay to me. That reads okay.	
13	not quite as clear to me.	13	Q. All right. So would you agree with me that the	
14	MR. MONTGOMERY: At this point I'd like	14	A. You know, it's patients who are on one or the other and then	
15	to show the witness what's previously been marked as	15	there were fewer. So I think that's reasonable.	
16	Exhibit 67.	16	Q. There were not fewer symptomatic or complicated ulcers	
17	THE WITNESS: Okay.	17	compared to diclofenac, correct?	
18	Q. (BY MR. MONTGOMERY) Is Exhibit 67 an April 17th, 2000 press	18	A. Now, are you referring back to what we looked at earlier?	
19	release?	19	Q. Yes.	
20	A. It looks like it, yes.	20	A. Because I got a lot of stuff in my head.	
21	Q. Have you ever seen it before?	21	Q. Sure. You can look at the final report again too, if you	
22	A. I have seen it before.	22	want to refresh your memory.	
23	Q. Did you see it before it was issued?	23	A. Now, and we're talking about which time period?	



25 Q. So you saw it afterwards?

24 A. I did not.

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Q. You mean the six-month or the entire study?

 $\,$ 25 $\,$ A. No, the study. Found that patients experienced fewer

Fred Silverstein

September 29, 2010

1 Sy	mptomatic	GI ulcers and	ulcer complications	compared with
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- ibuprofen or diclofenac, and I guess this is talking about
- six months, right? Because that's what the whole thing is
- 4 talking about?
- 5 Q. I don't know. Let's take a look at the first page of
- Exhibit 67. Do you see the third paragraph there that says,
- 7 "The celecoxib long-term arthritis safety study at
- 8 approximately 13 months," et cetera?
- 9 A. Right. Okay.
- 10 Q. So does that lead you to believe that the press release is
- talking about the 13th month data or the six-month data?
- Take your time. You can read the whole thing if you want.
- 13 A. Yeah. Well, it would look like it's talking about 13-month
- here because I don't see six months. Again, I did not see
- this at the time and I have not had a chance to study it when
- 16 I saw it recently, I'm kind of aware of it. Let me just read
- it a little bit. Matt, give me a second.
- 18 Q. Actually I'm going to ask you to read the entire thing. Read
- the whole thing and then let me know when you're done.
- 20 A. Okay. (Witness complies.) Okay.
- 21 Q. All right.
- 22 A. So it looks to me as if it is talking about --
- 23 Q. Let me ask a question first.
- 24 A. Okay. I'm sorry.
- 25 Q. Now you've had an opportunity to read the entirety of

- significant.
- 2 Q. Right
- 3 A. Okay?
- 4 Q. Okay. Now, would you turn back to the press release.
- 5 A. Right.
- 6 Q. Let's look at the second page, Bates number ending 978.
- 7 A. Right
- 8 Q. I'd like you to look at the sentence after the one that we
- 9 read before that says, "Celebrex was also associated with
- numerically fewer ulcer complications than the NSAID
- comparators among all patients and 64 percent fewer of these
- serious events among nonaspirin users, a statistically
- 13 significant difference."
- 14 Do you see that?
- 15 A. I do.
- 16 Q. So that statement is only true as to the six-month data, not
- the 13-month data, correct?
- 18 A. No, that -- before I agree to that I've got to look at this.
- 19 Q. Sure. Take your time.
- 20 A. (Witness reading.)
- 21 So numerically fewer than the comparators among all
 - patients. So they're not talking about -- they're talking
- about all patients numerically.
- 24 Q. The focus of my question is really on the second part of that
- sentence where it says, "64 percent fewer of the serious" --

Exhibit 67, the April 17th, 2000 press release, correct?

2 A. Correct

1

- Q. And having done that, is it your understanding that this
- 4 press release is describing the six-month or 13-month results
- of the CLASS study?
- 6 A. 13 months, to my read
- 7 Q. Okay. All right. Do you have the final report handy?
- 8 A. Yes
- 9 Q. All right. Would you please turn to page Bates number ending
- 10 117 of Exhibit 66, the final report?
- 11 A. Yes.
- 12 Q. All right. I'd like to direct you to the numbers that we
- looked at earlier in Tables 1 and 2.
- 14 A. Yes.
- Q. Do these indicate that at six months in patients not taking
- aspirin there's a statistically significant difference
- between Celebrex and the NSAIDs?
- 18 A. Correct
- 19 Q. But at 12 months there is not a statistically significant
- difference, correct? I'm sorry; of the entire study period
- there's not a statistically significant difference, correct?
- 22 A. Well, we're doing categories within categories. So the first
- one looks at the first six months, patients not taking
- aspirin, it's significant. In the second one, the entire
- study period, patients not taking aspirin it is not

1 A. Okay.

22

14

- $\,$ 2 $\,$ Q. -- "events among nonaspirin users, a statistically
- 3 significant difference."
- 4 A. Okay. Hold on that. The first part of the sentence would
- appear to be correct, "The numerically fewer ulcer
- 6 complications than the NSAID comparators among all patients,"
- 7 so I think that is accurate.
- 8 Q. And to both the six-month and the entire data?
- 9 A. Yeah, by my reading.
- 10 Q. Okay. And then the second part of the sentence?
- A. Then the second part of the sentence I'm looking at,
- "64 percent fewer of these serious events among nonaspirin
- users," so now we have to look at nonaspirin users.
 - So you want to know -- it is true at six months, the
- question is it also true at 12 months. And what this thing
- says is that Celebrex is .44, diclofenac is .48, and
- ibuprofen is 1.14. right?
- 18 Q. I'm sorry. Oh, I see where you're pointing.
- A. I'm trying to look at -- we agree that what they said is true
- for the first six months; that is, in nonaspirin users there
- is a statistically significant difference. That's the .037.
- You asked whether that difference was also true at 12 months
- or are they referring now to only six months?
- 24 O That's correct
- 25 A. And what I'm saying is so .48 and .48 and 1.14 -- well, I



September 29, 2010

Frec	Silverscein		september 29, 20.	ΤU
	145		:	147
1	don't think it's accurate to say it was a statistically	1	THE WITNESS: To my knowledge that is	
2	significant difference at 12 in the whole data study	2	accurate if you're saying that compared with patients who are	
3	period, although if you combine diclofenac and ibuprofen it	3	on ibuprofen or diclofenac, a group of patients who are one	
4	was less.	4	or the other.	
5	Q. All right. So for the sentence that we were discussing from	5	Q. (BY MR. MONTGOMERY) And the way you're interpreting the	
6	the April 17th, 2000 press release, it can only be true if	6	phrase "ibuprofen or diclofenac," would it change the meaning	
7	you're talking about the six-month data, not the entire study	7	of the sentence at all if we substituted "and" for "or"? So	
8	period; is that correct?	8	if the sentence read "ibuprofen and diclofenac" would it	
9	A. Well, "associated numerically fewer ulcer complications than	9	still be accurate?	
10	the NSAID comparators among all patients and 64 percent fewer	10	MR. WEISS: Object to the form of the	
11	among nonaspirin users," nonaspirin users.	11	question.	
12	So it was a lot fewer in the nonaspirin users at six	12	THE WITNESS: No, because it would	
13	months and it was fewer but not as big a difference in the	13	suggest that the patients were on ibuprofen and diclofenac,	
14	entire study period and didn't reach statistical	14	whereas in fact they were on one or the other. I don't think	
15	significance. So I the way I'm reading it, it doesn't	15	you can say "and." I mean I think the way to correct it to	
16	look like it's correct. 64 percent fewer of these serious	16	make it super clear would be to add half of the sentence,	
17	adverse events among nonaspirin users. So how many events	17	"compared with a group of patients who are either on	
18	were there? So if you look at the patients not taking	18	ibuprofen or diclofenac." So I don't think "and" would	
19	aspirin, at the crude numbers, there were 18 patients on	19	clarify it.	
20	celecoxib and let's see, 15 on or total nine, total of	20	Q. (BY MR. MONTGOMERY) But you're saying you think if it said	
21	nine versus a total of 13. So were they saying that 13 to 9	21	"and" instead of "or" it would actually be inaccurate then?	
22	is a 65 percent drop? It's not that much.	22	A. I think it could be misleading.	
23	So I would say, based on what I'm looking at right	23	Q. All right. Let's look at the first page of Exhibit 67, the	
24	here, it would be more accurate to say it was statistically	24	April 17th, 2000 press release.	
25	significant for the six months.	25	A. Well please finish your question.	
	146		1	148
1	Q. Okay. So would you say that the statement let me read it	1	Q. Sure. I'd like to direct you to the second full paragraph,	
2	into the record again. It says, "64 percent fewer of these	2	I'm going to read into the record. The first sentence in any	
3	serious events among nonaspirin users, a statistically	3	event. "Also, in comparison to Celebrex, ibuprofen and	
4	significant difference."	4	diclofenac were associated with a significantly greater GI	
5	That's inaccurate?	5	blood loss."	
6	MR. WEISS: Object to the form of the	6	I'm sorry; that's not the one I wanted to read.	
7	question.	7	Scratch that.	
8	THE WITNESS: Yeah, they don't	8	It's the first sentence of the press release. "In a	
9	specifically say whether it's six or 12 months. And without	9	landmark study to assess the overall long-term safety of the	
10	that I think it's not it's not accurate compared to this.	10	COX-2 specific inhibitor Celebrex (celecoxib capsules)	
11	Q. (BY MR. MONTGOMERY) Okay. Let's go back	11	arthritis patients taking four times the recommended	
12	A. Unless I'm misreading the data. I think it is true for the	12	osteoarthritis (OA) dose of the drug experienced fewer	
13	patients in six months that is a statistically significant	13	symptomatic gastrointestinal (GI) ulcers and ulcer	
14	reduction. Okay.	14	complications than patients taking ibuprofen and diclofenac,	
15	Q. Let's go to the sentence the first sentence in that	15	a difference that was statistically significant based on a	
16	paragraph we were just looking at. You think that sentence	16	combined analysis of Celebrex versus these two traditional	
17	is accurate; is that correct? I'll read it again. "The	17	nonsteroidal anti-inflammatory drugs (NSAIDs)."	
18	study funded by Searle and Pfizer, Inc. found that Celebrex	18	Now, that sentence says ibuprofen "and" diclofenac,	
19	patients experienced significantly fewer symptomatic GI	19	correct?	
20	ulcers and ulcer complications compared with ibuprofen or	20	A. That's correct; however, the part that follows it says "on a	
21	diclofenac."	21	combined analysis."	
22	Do you see that one?	22	Q. Right. So it's your understanding that that sentence is	
23	A. Yes.	23	accurate then?	
24	Q. Okay. And your testimony is that that statement is accurate?	24	A. Yes.	
25	MR. BUSHOFSKY: Objection to form.	25	Q. All right.	
		I		



September 29, 2010

Frec	i Silverstein		september 29, 2010
	1	49	151
1	A. Although I'm not an English major.	1	A. I do.
2	MR. MONTGOMERY: I'd like to ask the	2	Q. And do you believe that you said that?
3	court reporter to mark what will be Exhibit 198.	3	A. You know, it's not in quotes. You know, when Lee Simon is
4	(Exhibit No. 198 marked	4	being quoted it's in quotes. If you look at the on the
5	for identification.)	5	second page, 945, halfway down it says, "This data set,
6	Q. (BY MR. MONTGOMERY) Feel free to look at the entire exhibit.	6	because it demonstrates the incidence of complications of
7	I'm only going to ask you about the contents of the e-mail at	7	bleeding perforation, obstruction, et cetera," is in quotes.
8	the very bottom of the first page.	8	What they said I said is not in quotes. Because that is not
9	A. Okay. (Witness complies.) Okay.	9	familiar to me. And it was, you know, albeit true that the
10	Q. So this e-mail refers to a teleconference with yourself,	10	six months patients were required to stay on for six months,
11	Dr. Geis, Dr. Simon and Dr. Welton on April 17th, 2000; is	11	but there were other reasons for the head-to-head comparison.
12	that correct?	12	So that's the best I can do. If they had quoted me, then,
13	A. That's what it says.	13	you know, assuming they were accurate then it's what I said,
14	Q. And did you participate in a teleconference on that date?	14	but I don't remember this. It does hit some of the cogent
15	A. I don't think so. Perhaps somebody here who's smarter than I	15	points, though.
16	am can figure it out but I don't think I did.	16	Q. All right. So you don't believe you said what the article
17	MR. MONTGOMERY: I'd like to ask the	17	attributes to you?
18	court reporter to mark what will be Exhibit 199.	18	A. You know, I don't remember.
19	(Exhibit No. 199 marked	19	Q. Okay. You don't remember one way or the other?
20	for identification.)	20	A. Correct.
21	Q. (BY MR. MONTGOMERY) For the record, Exhibit 199 is an e-mail	21	Q. Let me ask you then: Separate from the quote, were data from
22	dated April 24th, 2000, that attaches an article from the	22	the first six months of the trial used because patients were
23	pink sheet dated April 24th, 2000, Bates No. DEFS 00390944	23	not required to remain on their assigned drug after six
24	through 46.	24	months?
25	Have you read all of Exhibit 199 now?	25	A. Ask that one again.
	1	50	152
1	A. I have.	1	Q. All right. You're familiar with the six-month data analysis
2	Q. Okay. Are you familiar with the pink sheet?	2	of the CLASS study?
3	A. No. I kind of vaguely, but I guess it's a fax sheet about	3	A. Yes.
4	the pharmaceutical industry is all I know about it.	4	Q. Was one of the reasons for that six-month analysis because
5	Q. Okay. Having read this article does it refresh your	5	patients were only required to be on the drug for six months?
6	recollection at all about participating in a conference call?	6	MR. WEISS: Object to the form of the
7	A. No.	7	question.
8	Q. Okay. Do you see in the first paragraph of the story it	8	THE WITNESS: Yes, but it was not one of
9	refers to a CLASS 13-month trial?	9	the overwhelming reasons. And I just want to make one point.
10	A. I do.	10	If you look at the paragraph that starts at the very bottom
11	Q. And then in the second paragraph do you see the reference to	11	of that first page. "While the incidence of complications
12	an April 17th conference call?	12	were cut in half, the rate of serious ulcer complications was
13	A. Yes.	13	the primary end point of the study. 'The issue here is you
14	Q. Now I'd like to direct you to the paragraph at the bottom of	14	are dealing with relatively small numbers of people so it did
15	the page, near the bottom of the page that starts, "Data from	15	not reach a significant level of .05."
16	the first six months of the trial."	16	And that's in quotes. So and that I would say,
17	Do you see that?	17	that's the kind of thing I would say. So I don't know why
18	A. Yes, yeah.	18	they didn't put it in quotes and I don't know if they were
19	Q. I'm going to read that into the record. It says, "Data from	19	accurate on that earlier paragraph.
20	the first six months of the trial were used for the	20	Q. (BY MR. MONTGOMERY) All right. My question, though, is:
1	head-to-head comparison of NSAIDs because patients were not	20	Regardless of whether you said it or not, is that statement
21	required to remain on their assigned drug after the six	22	accurate that the first six months of the trial were used for
22	months, study investigator Fred Silverstein, M.D., University	23	the head-to-head comparison because patients were not
23	of Washington explained."		
24 25		24	required to remain on their assigned drug after six months?
	Do you see that?	25	MR. WEISS: Objection; asked and



September 29, 2010

		-	September 29, 201
1	153	3	1!
1	answered.	1	conference call?
2	THE WITNESS: You know I would say no, it	2	Q. Oh, in the second paragraph it says
3	would be more complete if we talked about other things that	3	A. Okay. Okay.
4	happened.	4	Q. All right. So
5	Q. (BY MR. MONTGOMERY) Such as?	5	A. Yes, I guess that
6	A. Such as informative censoring.	6	Q. Let me ask the question again then.
7	THE VIDEOGRAPHER: Counsel, there's about	7	A. Right.
8	five minutes left on the tape.	8	Q. Do you understand this to be another article in part about an
9	Q. (BY MR. MONTGOMERY) Without including a discussion of	9	April 17, 2000 conference call?
10	informative censoring, could that statement on its own	10	A. Yes.
11	potentially mislead the reader?	11	Q. All right. Do you see the seventh paragraph down that starts
12	MR. WEISS: Object to the form of the	12	"Data"?
13	question.	13	A. Yes.
14	THE WITNESS: I don't know.	14	Q. All right. I'll read this into the record. "Data from the
15	Q. (BY MR. MONTGOMERY) Informative censoring was a more	15	first six months of the trial were considered to be the most
16	important reason to use the six-month analysis compared to	16	consistent because patients were not required to remain on
17	the minimum exposure; isn't that right?	17	their assigned drugs after the six-month period, Fred
18	MR. WEISS: Object to the form of the	18	Silverstein, M.D., University of Washington explained."
19	question.	19	Do you see that?
20	THE WITNESS: Well, I would say it was	20	A. I do.
21	equally, equally important or more important.	21	Q. And do you remember making that statement on a conference
22	Q. (BY MR. MONTGOMERY) But at least according to this it wasn't	22	call?
23	mentioned; is that right?	23	A. No, I do not. And once again, I would point out that in the
24	A. Not that I see.	24	first and the second and third, at least the second paragraph
25	MR. MONTGOMERY: All right. Let's go off	25	they're using quotes, and they're not using quotes around
	154		1!
1	the record.	1	this. It's virtually the same paragraph that's in the other
2	THE VIDEO OR A RIVER AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AUTOMOTIVE AND A STATE OF THE AUTOMOTIVE AUTOMO	1	
	THE VIDEOGRAPHER: We are going off the	2	news article.
3	THE VIDEOGRAPHER: We are going on the record. The time is 1:55 p.m.	3	news article. Q. And you still don't remember
3 4			
1	record. The time is 1:55 p.m.	3	Q. And you still don't remember
4	record. The time is 1:55 p.m. (Recess 1:55-2:05.)	3 4	Q. And you still don't remember A. I don't.
4 5	record. The time is 1:55 p.m. (Recess 1:55-2:05.) THE VIDEOGRAPHER: Okay. We are back on	3 4 5	Q. And you still don't rememberA. I don't.Q. Let me finish the question. Sorry.
4 5 6	record. The time is 1:55 p.m. (Recess 1:55-2:05.) THE VIDEOGRAPHER: Okay. We are back on the record. The time is 2:05 p.m. This is the beginning of	3 4 5 6	Q. And you still don't remember A. I don't. Q. Let me finish the question. Sorry. You still don't remember participating in a conference
4 5 6 7	record. The time is 1:55 p.m. (Recess 1:55-2:05.) THE VIDEOGRAPHER: Okay. We are back on the record. The time is 2:05 p.m. This is the beginning of	3 4 5 6 7	 Q. And you still don't remember A. I don't. Q. Let me finish the question. Sorry. You still don't remember participating in a conference call on or about these dates; is that right?
4 5 6 7 8	record. The time is 1:55 p.m. (Recess 1:55-2:05.) THE VIDEOGRAPHER: Okay. We are back on the record. The time is 2:05 p.m. This is the beginning of Tape No. 4.	3 4 5 6 7 8	 Q. And you still don't remember A. I don't. Q. Let me finish the question. Sorry. You still don't remember participating in a conference call on or about these dates; is that right? A. I do not clearly remember, no.
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4 5 6 7 8 9 10 11 12 13 14 15 16	record. The time is 1:55 p.m. (Recess 1:55-2:05.) THE VIDEOGRAPHER: Okay. We are back on the record. The time is 2:05 p.m. This is the beginning of Tape No. 4. EXAMINATION (Continuing) BY MR. MONTGOMERY: Q. You understand you're still under oath? A. Yes. MR. MONTGOMERY: I'd like to ask the court reporter to mark what will be Exhibit 200. (Exhibit No. 200 marked for identification.) Q. (BY MR. MONTGOMERY) Take your time and read it and let me	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. And you still don't remember A. I don't. Q. Let me finish the question. Sorry.
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Fred	Silverstein		September 29, 2	010
	157	,		159
1	your comments?	1	censoring is part of that and I felt that was logical to	
2	A. He was.	2	pursue that. I mean it was logical to have that be the main	
3	Q. Do you recall any suggestions or comments that you made that	3	thrust of the paper, but I thought that it was reasonable to	
4	he did not incorporate?	4	let the reader know that the trial you know, as in these	
5	A. I do.	5	news articles where it's stated very clearly that it was a	
6	Q. What were they?	6	13-month trial, I thought it would have been reasonable to	
7	A. I thought that the article needed a section that dealt with	7	put a section in to that effect.	
8	this issue about why we included six months and not the	8	Q. And why did you think it would be reasonable to do that?	
9	entire data set.	9	A. I thought it would be important to let the reader know that	
10	Q. So you wanted a section discussing informative censoring and	10	this was the first six months of a trial that went on a	
11	the justification for the six-month analysis?	11	couple of months longer.	
12	A. Correct.	12	I would like to add something to that. May I?	
13	Q. And was that suggestion adhered to?	13	Q. Yes, you may.	
14	A. No.	14	A. In addition, what I was told, and this is a situation where,	
15	Q. And why not?	15	you know, I am not a full-time employee of Searle or Pfizer,	
16	A. I don't know. I we discussed it several times, but I	16	I'm a consultant, and I was told that the six-month missed	
17	remember very clearly telling Dr. Geis that we had to get a	17	the primary end point and so did the full data set, no	
18	section in to the paper to explain why we were presenting the	18	difference there. I was told that there were no difference	
19	six months of data and not the 12 months. And I think we	19	in serious adverse events from the standpoint of	
20	talked about it twice and I think the second time, or at	20	cardiovascular, cerebral vascular, renal hypertensive, any of	i
21	least in one of the conversations, the last one we had prior	21	those events. So there was not a reason to it wasn't as	
22	to publication he said absolutely he told Lefkowith to get	22	if things were happening after six months that were not	
23	the section and it was going to be done.	23	happening before six months and therefore we had to say it	
24	Q. But it wasn't?	24	because otherwise you're not letting the reader know about	
25	A. Correct.	25	something that was very important that was happening after	
	158	3		160
1	Q. And did you sign off on the JAMA article without that section	1	six months than before six months.	
2	before publication?	2	And several times I asked Dr. Geis, Were there any	
3	A. Well, it's hard to say because when you say "sign off" it	3	adverse events that were apparent after six months that were	
4	sounds as if I approved of it and in fact what I said was the	4	not apparent in the first six months? And he said every	
5	article is fine but I want this other section included.	5	time I asked him he said no. So I felt that it was okay to	
6	That's what happened. It was not a question of my saying,	6	look at the six months of data but I did feel that it would	
7	Oh, yes, this is fine the way it is.	7	be more complete to let the reader know that there was more	
8	Q. Right. I guess let me ask it a different way.	8	data and that and why it was not included.	
9	Did you approve communicate your approval of the	9	Q. When you say that you asked whether there were any adverse	
10	JAMA article to anyone at Pharmacia based on the version that	10	events after six months, do you mean that there were adverse	
11	was ultimately printed in JAMA?	11	events single after six months that didn't exist or that	
12	MR. WEISS: Object to the form of the	12	there were literally no adverse events that happened after	
13	question.	13	the six-month period?	
14	THE WITNESS: Yeah, hard to answer. I	14	A. Right, I'm not talking about serious adverse GI events, I'm	
15	would probably say no because I thought it was going to have	15	talking about other events. So, for example, if at seven	
16	another section added to it. Otherwise I thought it was	16	months there were, you know, a series of patients who had	
17	fine.	17	strokes or had myocardial infarctions, then, you know, you	
18	Q. (BY MR. MONTGOMERY) And why did you think that it should have	18	can't how can you not present that data? That would be	
19	a section concerning the six-month analysis and the	19	essential to present.	
20	justifications therefor?	20	What I was told was that was not the case. There were	
21	A. Well, it seemed to me that the six-month analysis was clear.	21	no signals that there were cardiovascular, cerebral vascular,	
22	It corresponded to other studies that had been done like the	22	renal vascular events in the six to whatever that weren't	
		1	also advises a standard to the amount to also	

23

25 A. Yes.

already reported in the zero to six.

Q. And is it your understanding that that's true?



mucosa trial. It did not suffer from something weird that

was more readily understood so I felt -- and informative

was happening to the diclofenac and ibuprofen patients. It

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September 29, 2010

Fred	l Silverstein		September 29, 2	010
	161			163
1	Q. Notwithstanding that, do you still think that the JAMA	1	either.	
2	article should have included a section explaining the reasons	2	Q. What about secondary end points? If one secondary end point	
3	for the six-month analysis?	3	is statistically significant at six months but not 12 months,	
4	A. Yes.	4	would that change your perspective?	
5	Q. Were you concerned that the reader might, "a" reader of the	5	MR. WEISS: Object to the form of the	
6	JAMA article might be misled if they read a description of	6	question.	
7	the six-month results without knowing what the 13-month	7	THE WITNESS: I would have to know what	
8	results were or why the six months had been presented?	8	kind of secondary end point that was because what I was told,	
9	MR. WEISS: Object to the form of the	9	again, was that although you see, this gets back a little	
10	question.	10	bit to the conundrum of how to design a trial like this. The	
11	Q. (BY MR. MONTGOMERY) Let me ask it again.	11	decision was made not to include symptomatic ulcers. In the	
12	A. Yeah.	12	Vioxx trial they did include symptomatic ulcers. Here they	
13	Q. I'm going to ask it differently.	13	didn't. So when Steve Geis told me about the data he said it	
14	A. Yeah.	14	wasn't we didn't make significance for six months or for	
15	Q. Were you concerned that without the section that you wanted	15	the whole data set.	
16	put in that concerning informative censoring, that a	16	However, when you add symptomatic ulcers, we did make	
17	reader of the JAMA article might be misled?	17	significance for six months and the whole data set. And then	
18	MR. WEISS: Object to the form of the	18	there was also this interesting correlation with aspirin	
19	question.	19	where we expected from previous trials that the rate of using	
20	THE WITNESS: I would have to answer yes	20	aspirin would be about 10 percent and in the CLASS trial it	
21	and no. No, because I think that what the first six months	21	turned out to be 22 percent. And the problem with aspirin is	
22	showed was consistent with all the other data we had and	22	that it inhibits both the COX-1 and COX-2 enzyme systems and	
23	showed that Celebrex and paradox with data that's been	23	therefore kind of undo undoes the physiological benefit of	
24	published since then, but that showed that Celebrex is less	24	having a selective inhibitor.	
25	injurious to the GI tract than the other two comparator	25	Q. (BY MR. MONTGOMERY) All right. Just to be clear: So you	
	162			164
1	NSAIDs. So I would say no, I don't think the reader was	1	it your position that a section should be included in the	
2	misread; however, I do think it should have been included.	2	JAMA article disclosing the reasons for the six-month	
3	Q. (BY MR. MONTGOMERY) So is it your understanding that	3	analysis?	
4	generally speaking the six-month results and the 13-month	4	A. Correct.	
5	results are the same?	5	MR. WEISS: Object to the form of the	
6	A. I know that there are one or two differences but the answer	6	question.	
7	is yes, I think they are very close to each other and the	7	THE WITNESS: Correct.	
8	differences are relate back to the change in the baseline	8	Q. (BY MR. MONTGOMERY) And you communicated those to Dr. Geis;	
9	population caused by informative censor.	9	is that correct?	
10	Q. But if the results of the study are the same in six months	10	A. That's correct.	
11	and the entire data set, why not just publish the entire data	11	Q. And approximately how many times did you tell him that?	
12	set?	12	A. Well, I know it was we discussed it but I remember very	
13	A. Because it wasn't that simple. The patients dropped off in	13	clearly one conversation when the paper was, you know, in the	
14	the other two groups so the question was what was happening,	14	final stages and I said, We've got to get that section in.	
15	and it wasn't clear to us what was happening. It's like	15	So that's the conversation I remember. And he said,	
16	there's something going on, it's almost as if somebody I	16	Absolutely, I've told JAMA it's going to go in.	
17	don't know, it wasn't clear what was happening. So it was	17	Q. Was that a phone conversation or in person?	
18	clear for the first six months. It was not clear for the	18	A. It was a phone.	
19	period after that. But there was no fundamental difference	19	Q. Was anybody else on the call?	
20	according to the way the data was presented to me. It was	20	A. I don't think so.	
21	not a question of you know, if it had been if the	21	Q. Did you ever talk to any of the other authors of the JAMA	
22	primary end point had been statistically significant at six	22	article regarding the inclusion of a section about	
23	months but not at 12 months, then I would have said, You	23	informative censoring and the six-month analysis?	
24	can't do that. You know, you got to present it both ways.	24	A. No, but I did ask Dr. Geis remember I had told you I had	



But what I was told was that it was not significant at

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missed a meeting? And that was a meeting in which they had a

Fred	Silverstein		September 29, 20	10
	165			167
1	discussion for a whole day about how to present the data and	1	wasn't included in the final JAMA article, correct?	
2	the benefits of six months versus longer data, and I missed	2	A. That's correct.	
3	that. So I asked Dr. Geis, How how are Lee Simon and Bob	3	Q. And when did you discover that?	
4	Makuch and the other people about presenting the data in this	4	A. When I saw the paper.	
5	form? And he said it was as I remember he said that was	5	Q. When it was published?	
6	fine with them. They thought it was the way to go.	6	A. That's correct.	
7	Q. During the drafting process of the JAMA article when comments	7	Q. And how did you feel when you saw that the section that you	
8	were being submitted, did you ever see the comments of any of	8	wanted was no longer was not included?	
9	the other authors?	9	A. I was not happy about it.	
10	A. I don't remember. Because the corresponding author was	10	Q. And did you talk to anybody about that?	
11	Lefkowith and he really was the pivot person with the paper.	11	A. I did.	
12	We all had input. We all knew what was going on. We all	12	Q. Who did you talk to?	
13	knew where the data was. It was all open amongst all the	13	A. Dr. Geis.	
14	authors. So if Jim were alive, it's unfortunate that he died	14	Q. And on the phone?	
15	prematurely, but if he were alive, he would be the person who	15	A. On the phone.	
16	would have seen everybody's comments. It would not	16	Q. And what did you say?	
17	necessarily, and I don't believe they did come to me, even as	17	A. Well, I asked him, What happened? I thought you said you	
18	first author.	18	were going to put in the section on what happened to the data	
19	Q. Did Dr. Simon ever tell you that he thought the median	19	after six months? And what I learned was that what I took	
20	exposure to the drugs should be included in the JAMA article?	20	away from the conversation was that the article went on a	
21	A. I don't remember. He's a very bright guy but I just don't	21	fast track because the JAMA the New England Journal had	
22	remember that specific issue.	22	just published the Vioxx trial and it was implied that JAMA	
23	Q. So as far as you knew when the JAMA article was submitted, it	23	wanted to get the Celebrex trial out quickly and it sort of	
24	included the section that you suggested about informative	24	took a life of its own and went through and was published	
25	censoring, correct?	25	before this other section could be added to it; that one of	
	166			168
1	MR. WEISS: Object to the form of the	1	the editors at JAMA knew that there was more data that there	
2	question.	2	was longer data, so JAMA was not unaware of that. And then	
3	THE WITNESS: No.	3	the most compelling argument was, this is all in the hands of	
4	Q. (BY MR. MONTGOMERY) Let me put it a different way.	4	the FDA. It is all going to be aired you know, this is	
	A. Okay.	5	now we're talking about October of 2000. It is in two or	
6	Q. At the time the submission was made, you didn't actually see	6	three months this is going to be aired in front of hundreds	
7	the final product, correct?	7	of people and all the data is going to be discussed, the	
8	MR. WEISS: Object to the form of the	8	six-month data, the whole data set. Nothing has been hidden,	
9	question.	9	it's all open at the FDA presentation which CNN and all these	
10	THE WITNESS: At the time the submission	10	other networks come to.	
11	was made, well, I saw a product that was putatively a final	11	Q. Did you find that explanation satisfactory?	
12	product and I said, You've got to add a section to that, and	12	A. That's a very calls for a very subjective response.	
13	I didn't see what happened after that. I was told it would	13	Q. I'm asking for your subjective responses.	
14	be added and I didn't see that section added.	14	A. Yeah. It was not the answer I wanted in the sense that I	

Q. (BY MR. MONTGOMERY) Okay. So subsequent to that conversation the final manuscript was submitted to JAMA, correct? 17 A. I don't know that. It may well have -- it probably had been submitted to JAMA. When you submit a manuscript it goes 19 through a process of going to page proofs and comes back as a 20 draft and page proofs, and it was somewhere in there that I

Steve, he's going to -- to Jim, he's going to be sure it's Q. Then at some point you discovered that the section in fact

saw it and said, Where is the section that we talked about

adding on informative censoring? And Geis said, I talked to

15 wanted to know that it actually was in the journal. It 16 explained to some degree what happened and I guess I felt

that the compelling part of it was that all the data was at 17 the FDA, was all going to be aired in a whole day session and

19 that nobody would feel that the data was obfuscated or 20 important data was withheld, and therefore, I didn't insist

21 that we do something about it.

22 Q. Did you ever talk to Dr. Lefkowith about it?

23 A. I don't remember. I don't remember. Most of the contact I

24 had from that time was with Geis.

25 Q. After the publication of the JAMA article did you ever talk



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A. No.

Q. Why is that?

colleague

So in that sense, I did believe him, yes, I believed

I know, Steve Geis is exemplary in clinical research. He is

just one of the hardest working people I've ever met. And I

never had cause to feel as if he was misleading me, never,

and he never asked me ever to mislead anybody else. It

most kosher, if you will, representation and relationship.

was -- it was always handled in what I considered to be the

So I did not feel that Dr. Geis had done something that was

unfair to me or unfair to the medical community or patients.

A. Well, you know, it wasn't a positive experience. What

happened wasn't positive. It took a little bit of a life of

its own. The media got involved. I mean, the entire study

Q. (BY MR. MONTGOMERY) Did you ever work with Dr. Geis again

him. I feel like -- I still feel like Steve Geis, with what

September 29, 2010

171

169 to any of the other -- any of your other co-authors about the 1 was discussed as -- pretty much as completely as you can 1 2 discuss it at that FDA regulatory meeting in February of omission of the section you wanted regarding informative 2 2001, and everybody in the back of the room -- and the whole 3 censoring? room was filled because everybody's there, all the companies A. Not that I remember. 4 4 that have H 2 blockers and everybody is there for a GI 5 5 Q. Did you believe Dr. Geis's representation to you that the presentation like this, and I felt that it had been well publication of the article was so short tracked that there 6 vetted in terms of anybody saying that I had withheld was no way to get in the section that you wanted before something is like. I don't understand how you could say that. 8 8 publication? MR. WEISS: Object to the form of the 9 at that meeting 9 10 At the same time I was getting busier with other things 10 question, mischaracterizes the witness's testimony. 11 THE WITNESS: To answer that, I have to 11 I was doing and I was at the point of saying, I'm done do a little short diversion and it won't be a long 12 consulting. I'm done consulting with this project and I'm 12 done with most of the consulting I was doing outside of --13 13 digression. If you were -- if you were doing these studies, 14 well, most of the consulting I was doing. And so I -- you 14 the amount of data would fill this room. The thought that 15 know, somewhere we looked back there and it had Silverstein any one person, me or anybody else who's doing this on a 15 will present at these. I never presented at these things consulting basis which means I've got another job, can verify 16 16 because I basically said, I'll go to the FDA, I'll do the 17 every piece of information is just not reality, is not what 17 happens. It will never be what happens. You have to trust 18 best I can to explain the rationale for six months, the 18 19 rationale for why celecoxib is a superior drug to the other 19 the people you work with and if you don't you shouldn't work 20 NSAIDs, and then that's probably going to be the end of my with them. You should never be in a situation where you 2.0 21 involvement 21 don't trust somebody and you continue working with them. 22 Q. So would it be fair to say that you came in for some 22 So I had experience of working with Steve Geis going 23 criticism because the JAMA article -- some public criticism back to about 1983 when I first went to the FDA when that guy 2.3 because the JAMA article didn't include the section that you Andre Robert was talking about Misoprostol and trying to get 2.4 24 Misoprostol approved. I think it was 1984 or something like 25 requested regarding informative censoring? 25 that. And at this point I had 15 years plus or minus 1 1 experience with Geis. He is an extremely intense, extremely Finish your question. 2 2 bright M.D., Ph.D. who works all the time. I attended many 3 3 meetings with him and heard him talk to the investigators, 4 the people who are really doing the work, the guys who -- men 5 have gotten you off the hook publicly? and women who enroll the patients in the studies. And I held 6 6 7 him in nothing but the highest regard as a scientist and as a 7

A. Yeah, but -- yes, that's fair to say. But -- go ahead.

Q. So in that case why did you never publicly say, I asked for it to be in there but they didn't include it? Wouldn't that

MR. WEISS: Object to the form of the

question.

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MR. BUSHOFSKY: Object.

THE WITNESS: I don't feel like I was attacked personally. I felt like the whole paper was attacked. I was not a statistician of the paper. I was not a clinical trial expert. I was not a design expert. I was an expert in GI bleeding. Probably one of the experts in the world in GI bleeding if only by the fact that I'm old and I've done a lot of stuff, okay? So in therapy and diagnosis and epidemiology, and I know a lot about GI bleeding. I don't know these other things.

So I never felt that I was attacked personally. You know. I never felt that -- I mean perhaps other people would say, Yeah, you were, but I didn't feel that way. And once it had been laid out to -- at the FDA, I felt it was clear and it was not necessary for me to go public and say something else because I felt it was -- it was there. It was there for everybody to read. Now, I did get involved again when the whole thing

after the CLASS study?

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172

September 29, 2010

173 heated up that next summer because initially there was -- you 1 Q. Let me finish that A. I'm sorry know, to me, I don't know how you could have had more data 2 Q. Why did you believe it would have been better if the JAMA about what happened than at the February meeting, but then article included the information that you suggested it later in that year in July it heated up again when several people, two or three people wrote letters to the editor of A. Okay. Because if I had included -- or if we had included JAMA and they wanted to know about how come apparently the that, it might have stopped the lay press from going, Whew, study was longer than was in the JAMA article. And then I this is hidden data, you know, these folks are not being got involved again intensively because I felt like everybody was kind of going like this (indicating) and they needed forthcoming about all the data. And my feeling is if that 10 had not happened, the paper would have -- would have been 1.0 somebody to come in and say, Let's figure out what we should okay. Maybe not perfect. Life is not perfect. You know, in 11 do. And I wrote the letter to the -- the response to the 11 12 retrospect the people who pick through things can sometimes letter to the editor in JAMA which was published in about 12 find things that would be better done. But this study was an 13 13 October in which we said. In retrospect yeah, we should have 14 unbelievable effort on the part of a huge number of people made it clear. We should have -- I didn't say, Hey, I didn't 14 15 and I think the data was important. But I feel that if we do that. I chose not to do that. I didn't do that, because 15 had put in that section -- and then it's, you know, then you I felt like, you know, we were a team doing this. But what I 16 16 17 know. You know, I don't believe it, because they didn't give 17 did say was, Yeah, it would have been better if we had let me the other data. Well, you could say, Well, yeah, okay, people know the exact timing of the study. And then we 18 18 19 they said the data after six months had some problems in it 19 answered a couple of other questions -- and so I was involved then. And after that, that was the end in 199 -- in 2001 of 20 because of this other phenomena. But I felt like that would 20 21 have precluded some of what became a little bit out of 21 my consulting for Searle Pfizer Pharmacia 22 control Q. (BY MR. MONTGOMERY) So why would it have been better if you MR. MONTGOMERY: I'd like to show the 23 23 had included the information concerning the post six-month witness what's previously been marked as Wolfe Exhibit 3. 24 24 data? A. Rephrase the question. Why --25 Q. (BY MR. MONTGOMERY) Is Exhibit 3 the JAMA -- I'm sorry; Wolfe 25 176 Q. Let me ask it differently. Exhibit 3 is the JAMA article we've been talking about? 1 1 You said, and correct me if I'm wrong, that in your 2 2 letter to the editor you conceded it would have been better Q. Could you take a look at the Main Outcome Measure section on if you had included other information, correct? the first page? Q. Do you see the reference to the six-month treatment period? Q. What information are you talking about? 6 6 A. Okay. I'm talking about a section that explained why we used 7 8 six months instead of the whole data. Because -- because I Q. Why is it that the treatment period is called six-month here feel -- and this may not be intuitively obvious to you, that but is described differently in the documents that we looked 9 the CLASS paper is a good paper, that the amount of effort at earlier? 10 10 11 that went into this was thousands of hours, mostly on the MR. WEISS: Object to the form of the 11 12 part of the patients, but then on the individual doctors and 12 question. THE WITNESS: Which documents? Those 13 then -- I mean this was not Steve Geis and me. I mean there 13 were thousands of hours that went into this. It was a huge 14 press releases? I mean the pink slips? 14 trial of a really significant new approach to the problem of 15 MR. MONTGOMERY: No. no. no. No. 15 16 arthritis which continues to become an increasing problem in Q. (BY MR. MONTGOMERY) Why don't you take a look at the final 16 our society as, you know, the aging of the population. I report. I'm pretty sure that has it. Yeah, it's page Bates 17 17 have a new hip. I have an artificial hip on the right side. number ending 145 of Exhibit 66. 18 18 A. Okay. I have 145. 19 So I mean this is something that is getting more -- it's not 19 20 diminishing, it's becoming more important. We have learned 20 Q. Yes. Do you see the Treatment Period section at the bottom? 21 the importance of the nonsteroidal anti-inflammatory drugs. 21 So I'm sorry; I distracted myself. You were asking? 22 Q. I'll read into the record an excerpt of the first sentence. 22

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Q. Why you thought it would have been better had the JAMA

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article --

A. Oh, yes.

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It says, "The treatment period was the period during which

scheduled to last for 52 or 65 weeks " et cetera.

study medication was taken. For each patient this period was

September 29, 2010

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	177	17
1	So that's how it's described here in the final report,	1 question.
2	and in the JAMA article it's called the six-month treatment	2 THE WITNESS: Well, it's talking about
3	period. I'm wondering, why the disparity?	the six-month period so it would be talking about I
4	MR. WEISS: Object to the form of the	4 believe there was an earlier chart which looked at six
5	question.	5 months, so 4573.
6	THE WITNESS: I think it's the issue	6 Q. (BY MR. MONTGOMERY) So it would be appropriate to say that
7	we're discussing. I mean the decision was made to talk about	7 4573 patients completed the study?
8	the six-month treatment period which was a piece of the	8 MR. WEISS: Object to the form of the
9	entire period and had there been another section it would	9 question.
10	have been clear.	10 MR. BUSHOFSKY: Object to the form.
11	Q. (BY MR. MONTGOMERY) As it stands could a reader of the JAMA	11 THE WITNESS: No, completed six months.
12	article have reasonably believed that the CLASS study only	12 Q. (BY MR. MONTGOMERY) So do you believe it would be inaccurate
13	lasted six months?	to say to represent that over 4,000 patients completed the
14	MR. WEISS: Object to the form of the	14 study when let me rephrase.
15	question.	15 Would it be inaccurate to say in the JAMA article that
16	THE WITNESS: Yes.	over 4,000 patients completed the study?
17	Q. (BY MR. MONTGOMERY) All right. Would you turn to page Bates	17 A. It would not be inaccurate if you defined the study as the
18	number ending 881?	18 six months.
19	MR. BUSHOFSKY: Which document?	19 Q. Do you believe that the JAMA article did that?
20	MR. MONTGOMERY: I'm sorry; of Wolfe	20 A. I think it did define it as six months.
21	Exhibit 3.	Q. So then you think it's appropriate for the JAMA article to
22	THE WITNESS: (Complies.)	22 represent that over 4,000 patients completed the study?
23	Q. (BY MR. MONTGOMERY) Do you see Figure 1 at the top of the	23 MR. WEISS: Object to the form of the
	page?	24 question.
24	A. I do.	25 THE WITNESS: Completed the six months of
25	A. 140.	25 THE TIMESS. COMPLETE WAS SIX MOUNTED ST
	178	
1	Q. And is that a flow chart of patient disposition at six	1 the study.
2	months?	2 Q. (BY MR. MONTGOMERY) Right. That's it could have said
3	A. I can't read it.	that; I'm asking you would it be appropriate to say that over
4	Q. Even the top part?	4 4,000 patients completed the study?
4 5	Q. Even the top part?A. Oh, it says, "Flow chart of patient disposition at six	4 4,000 patients completed the study? 5 A. And where does it say that? You're adding up the two boxes
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Even the top part? A. Oh, it says, "Flow chart of patient disposition at six months," yes. But I can't read anything that's below it. Q. Okay. Do you recall our discussion of the number of patients that completed the study from the final report earlier? A. Not specifically. Q. All right. Let's take a look at it. A. Okay. Q. Let's look at the final report and I believe it's Page 57. Actually it's Page 59. I'm sorry; Bates number ending 170 of Exhibit 66. MS. McPHEE: 170?	4,000 patients completed the study? A. And where does it say that? You're adding up the two boxes on the bottom that I can't read of that flow chart? Q. That's correct. A. Well, this is what happened at six months. I feel like that's accurate. Again, I would have preferred an additional section. Q. So you think it was accurate if it's – strike that question. You think it would be accurate to represent in the JAMA article that over 4,000 patients completed the study, without qualification? MR. BUSHOFSKY: Object to the form. THE WITNESS: My answer remains the same as defined in this paper; six months, yes, it was over 4,000 patients who completed six months. I don't know how to say it any differently. Q. (BY MR. MONTGOMERY) Okay. Let's look at another page of the final report, Bates number ending 177 of Exhibit 66. A. Okay. Are we talking about Figure 8 A?



September 29, 2010

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1	A. I do.	1	on Wolfe Exhibit 3, Bates number ending 882. Do you see	
2	Q. All right. Do you see the box in the lower right-hand	2	Figure 2?	
3	portion of Figure 8 B that says, "N equals 384 reviewed by	3	A. I do.	
4	all GEC members"?	4	Q. Do you see Subsection B of Figure 2?	
5	A. Yes.	5	A. I do.	
6	Q. And does that mean that for the entire study period the GEC	6	Q. All right. The first comparison there as between celecoxib	
7	reviewed the records of 384 patients?	7	and NSAIDs, do you see that?	
8	A. I believe that's right.	8	A. Right, I do.	
9	Q. Let's look back at the JAMA article.	9	Q. And the P value is .04, correct?	
10	A. Yeah.	10	A. Correct.	
11	Q. Which is Wolfe Exhibit 3 at the page you're on, ending Bates	11	Q. And that's statistically significant, right?	
12	No. 881. Do you see in the lower right-hand corner it	12	A. Correct.	
13	says there's a section titled GI Toxicity?	13	Q. Now, that result wouldn't be significantly significant if the	
14	A. Yes.	14	data from the entire study period were included; is that	
15	Q. All right. I'll read the first sentence of that into the	15	right?	
16	record. "A total of 260 cases were selected by the GI events	16	A. That's my understanding.	
17	committee for adjudication."	17	Q. Do you think it was misleading to represent this result	
18	Do you see that?	18	without the section that you suggested be included concerning	
19	A. I do.	19	informative censoring?	
20	Q. And is that an accurate statement?	20	MR. WEISS: Object to the form of the	
21	A. Well, I want to go back to the other flow chart.	21	question.	
22	Q. Sure. That's on Bates No. 177 of Exhibit	22	THE WITNESS: I'm sorry. That I	
23	A. Right.	23	didn't follow the logic of what you said. This is looking at patients not taking aspirin and saying that in the six months	
24	Q 66?	25	of the trial that was presented here, there was a significant	
25	A. "A total of 260 cases were selected for adjudication."	23	——————————————————————————————————————	
	182			184
1	That is correct in the first six-month analysis.	1	reduction in the incidence of upper GI complications in the	
2	That's the N is equal to 260. Reviewed by the GEC	2	patients not taking aspirin, so	
3	members.	3	Q. (BY MR. MONTGOMERY) Sure. Let me explore.	
4	Q. Right. Now, does the JAMA article say that 260 cases were	4	A. Yeah.	
5	reviewed in the first six months?	5	Q. This particular result was statistically significant at six	
6	A. It just says they were reviewed. It does not say in the first six months.	6	months but not at the full data set, correct? A. Ah, I think you're addressing the fact that this was the only	
7 8	Q. So would you expect a reader to take that to mean in the	7		
9	entire study 260 cases were reviewed?	8 9	finding I believe that was significant at six months but	
10	MR. BUSHOFSKY: Object to the form.	10	not is that right? Not significant at the whole data set? Q. That's my understanding. You're free to you can look at	
11	MR. WEISS: Object to the form.		the final report or any other document if you want to refresh	
12	THE WITNESS: I would think that the	11	your memory.	
13	reader would think in the six months that's the number of	13	A. Yeah, I think that's the case, okay.	
14	cases that were reviewed. So I didn't follow exactly but	14	Q. So my question is, Figure 2 of the JAMA article, Wolfe	
15	that's my answer.	15	Exhibit 3, displays a result that's only statistically	
16	Q. (BY MR. MONTGOMERY) Do you think that the representation that	16	significant at six months but not in the entire data set,	
17	260 cases were selected by the GI events committee for	17	correct?	
18	adjudication was misleading without the section that you	18	A. I okay. I'll take that as correct.	
19	wanted included about informative censoring?	19	Q. All right. In your opinion was it misleading to present this	
20	MR. WEISS: Object to the form of the	20	result without your, the section that you suggested be	
21	question.	21	included explaining the reasons for the six-month analysis?	
1	•	1 21	and the state of t	

23

24

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22

THE WITNESS: I think it's accurate

because this paper is about six months. I feel it would have

been better if there had been the other section added to it.

25 Q. (BY MR. MONTGOMERY) All right. Let's take a look at Figure 2

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22 A. No, because I feel like this is what happened at six months.

bollixing up the selectivity of the celecoxib. So I feel

This is what happened. In people not taking aspirin there

was a significant improvement when you didn't have aspirin

Fred	Silverstein		September 29, 2010
	185		
1	like that's appropriate. However, I still would have	1	understand it's not as if something appeared in the entire
2	preferred to have that section in saying that this was the	2	data set on Table 4 excuse me on Table 10b that was not
3	first six months of what was a longer study. I don't think	3	included in Table 4. So what I'm saying is Table 4 contained
4	it makes this wrong. I think this is correct. And if I had	4	rash that occurred within six months. Table 10b mentioned a
5	to design the trial, I wouldn't have put I wouldn't have	5	rash that occurred in the entire study period.
6	allowed patients on aspirin in the first place. I think.	6	So you're asking why not put the entire study period
7	Q. All right. If you can turn the page on Wolfe Exhibit 3 to	7	rash information into the article, but the article was about
8	the next page I think, it's a Bates number ending 883.	8	six months and there wasn't to me a significant difference,
9	There's Table 4 there, do you see that?	9	so why would you?
10	A. I do.	10	Q. All right. Let me ask it a different way.
11	Q. And I'd like you to compare that to the table in the final	11	If informative censoring is correct then the
12	report which is Exhibit 66 on Bates number ending 288.	12	gastrointestinal results of the study became biased
13	A. I'm lost.	13	especially after six months, correct?
14	Q. All right.	14	A. Right.
15	A. I know you're saying you want me to compare this to the final	15	Q. But the is there any reason to believe that the safety
16	report.	16	results became biased after six months except with regard to
17	Q. Right. Bates number ending 288.	17	GI events?
18	A. 288, okay. Okay.	18	A. Not to my knowledge.
	Q. All right. Do you see Table 10b in the final report?	19	Q. So is there any reason to have excluded the non GI adverse
19 20	A. I do.	20	event data from the post six-month period of the CLASS study?
		21	A. That's a very complicated sentence.
21	Q. All right. And you see Table 4 in the JAMA article? A. I do.	22	MR. MONTGOMERY: She can read it back. I
22	Q. All right. Now, Table 4 in the JAMA article discloses	23	don't want to try it again.
23		24	IIII
24 25	adverse effects during the six-month treatment period, correct?	25	
	A. Correct.	1	188 (Question on Page 187, Lines 19
1 2		2	
	Q. And Table 10b in the final report discloses adverse events		through 20, read by the reporter.)
3 4	with incidence greater or equal to three percent in any treatment group for the entire study period, correct?	3 4	THE WITNESS: Right. What I would say is
	A. Correct.	5	-
			that would be a bit confusing because it wasn't the same period as the period for which the paper was written, and
6	Q. Now, why not include the adverse effects in the JAMA article	6	
7	that happened after six months?	7	since there wasn't any substantial or important clinical
8	A. Like, for example?	8	difference, I don't see why you would do that. I don't see
9	Q. Sure. Rash, for example?	9	why you would make the paper about six months and write the
	A. Just a moment. So you're saying rash is included in 10b in	10	adverse effects about the entire treatment period.
11	the final report but not included	11	MR. MONTGOMERY: I'd like to show the
12	Q. Oh, no, I'm sorry.	12	witness what's previously been marked Exhibit 4. I'm sorry;
13	A in Table 4?	13	Wolfe Exhibit 4.
14	Q. No, no, no. My question is, Table 4 of the JAMA article	14	MR. BUSHOFSKY: Before you get into that
15	contains information regarding adverse rash events	15	can we take a break?
	A. Right.	16	MR. MONTGOMERY: Sure. Let's go off the
17	Q during the first six months	17	record, please.
	A. Right.	18	THE VIDEOGRAPHER: We're going off the
	Q of the study.	19	record. The time is 2:59 p.m.
	A. Right.	20	(Recess 2:59-3:08.)
21	Q. Is there any reason not to have included rash adverse events	21	THE VIDEOGRAPHER: We are back on the
		1	
22	that happened after six months in the study?	22	record. The time is 3:08 p.m. This is the beginning of Tape
		1	record. The time is 3:08 p.m. This is the beginning of Tape No. 5.

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and the data is very similar, as I read it. So I don't

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September 29, 2010

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	18	9		191
1	EXAMINATION (Continuing)	1	THE WITNESS: Yes.	
2	BY MR. MONTGOMERY:	2	Q. (BY MR. MONTGOMERY) Would it be fair to say that in the JAMA	
3	Q. You understand you're still under oath?	3	article you reported the results of a six-month study?	
4	A. I do.	4	MR. WEISS: Object to the form of the	
5	Q. Okay. When we left we were looking at Wolfe Exhibit 4. Have	5	question.	
6	you seen Wolfe Exhibit 4 before?	6	THE WITNESS: You're shaving the	
7	A. I have.	7	semantics a little bit for me, but I would think yes, that's	
8	Q. And it's an editorial written by David R. Lichtenstine and M.	8	true as well.	
9	Michael Wolfe concerning the JAMA article?	9	Q. (BY MR. MONTGOMERY) Okay. So did you attend an advisory	
10	A. Correct.	10	committee meeting at the FDA regarding Celebrex in February	
11	Q. All right. Would you take a look on the first page of Wolfe	11	of 2001?	
12	Exhibit 4 well, before before we get there, did you see	12	A. I did.	
13	this editorial at the time it was published?	13	Q. And did you participate in rehearsals in anticipation of that	
14	A. You know, I think I did. I probably did. I don't remember	14	meeting?	
15	studying it.	15	A. I don't remember. I remember the meeting but I don't	
16	Q. All right. Would you take a look on the first page of Wolfe	16	remember whether we had any rehearsals. I don't believe that	
17	Exhibit 4, the second column, so the column on the right,	17	we did but I don't remember it clearly.	
18	first full paragraph?	18	MR. MONTGOMERY: I'd like to ask the	
19	A. Right.	19	court reporter to mark what will be Exhibit 201.	
20	Q. Do you see in basically the middle of that paragraph there's	20	(Exhibit No. 201 marked	
21	a reference to the CLASS study as a six-month study?	21	for identification.)	
22	A. Right.	22	MR. MONTGOMERY: Oh, shoot. I think	
23	Q. And is that an accurate description of the CLASS study?	23	there's an e-mail stapled to the back of this that's not part	
24	A. It says that in the journal I am reporting the results of a	24	of it. So that's what I'd ask people to do. So for the	
25	six-month randomized trial. That is true. That's what I	25	record Exhibit 201 is Bates No. DEFS 00656585 through	
		_		
	19	0		192
1	reported in the journal. The trial obviously went on longer,	0 1	00656587.	192
1 2			00656587. Q. (BY MR. MONTGOMERY) Does Exhibit 201 appear to be notes by	192
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Fred Silverstein

September 29, 2010

1	MR. MONTGOMERY:	It could have been.
1	MR. MONTGOMERY:	It could have been.

- THE WITNESS: It's a nice presentation.
- Q. (BY MR. MONTGOMERY) So you presented the results of the CLASS
- 4 study at the American College of Physicians; is that correct?
- 5 A. That is correct, as I remember.
- 6 Q. And that was April 17th, 2000?
- A. I guess. It was 10 years ago, but that's what I gather.
- 8 Q. All right. And Exhibit 202, there's an e-mail on the first
- 9 page and after that there's a slide presentation. Are those
- 1.0 your slides from the APC?
- 11 A. These are the slides I showed. They are a combination of my
- 12 slides and slides from the company.
- Q. And in these slides did you just discuss the six-month data
- 14 or the entire data set?
- A. I discussed the six-month data; however, at the beginning of
- my presentation I stood up and said, This study went on for
- longer than six months but the data after six months is very
- difficult to interpret and therefore I'm going to focus on
- 19 the six-month data.
- 20 Q. So you put in basically orally the section that you wanted to
- 21 include in the JAMA article?
- 22 A. Yeah, it was a little brief from the standpoint of explaining
- why, but yes, I did do that. And Searle knew I was going to
- do it and nobody objected.
- 25 Q. And did you -- beyond what you just said, did you disclose
- 194
- any of the results of the study after six months --
- 2 A. No

1

- Q. -- or just that there existed results after six months?
- 4 A. Correct.
- Q. So just to make sure the record is clear, so you disclosed
- 6 the existence of some results after six months but not what
- 7 those results were?
- 8 A. That's correct. What I said was the data was very difficult
- 9 to interpret and therefore I'm going to focus on the first
- six months of the study.
- 11 Q. All right. Would you turn to page Bates number ending 236 of
- 12 Exhibit 202
- 13 A. (Witness complies.)
- Q. And is that a slide entitled Most Common Adverse Events?
- 15 A. It is
- 16 Q. All right. And is this slide reporting adverse events from
- the first six months of the trial or the entire data set?
- 18 A. As I recall the first six months of the trial.
- $\,$ 19 $\,$ Q. All right. And can you take a look at the final report,
- please, which is Exhibit 66 at Page 177.
- 21 A. Okay.
- $\,$ 22 $\,$ Q. All right. Would you compare -- and I can take you through
- them one by one, but will you just compare --
- A. I must be in the wrong place. 177?
- $\,$ 25 $\,$ Q. I'm sorry; Bates number ending 288. It's the internal

- 1 Page 177. I apologize.
- 2 A. Oh, I see. Okay. Okay.
- 3 Q. All right. So we're looking at Exhibit 66, Bates number
- 4 ending 288, Table 10b, correct?
- 5 A. Yes
- 6 Q. Okay. And that has adverse events for the entire study
- 7 period, correct?
- 8 A. It does
- 9 Q. Now, we can go through it one by one if you want, but why
- don't you take a minute and compare the results or the
- information in Figure 10b in the final report to your slide
- and tell me whether you think that these are the six-month or
- 13 complete study results.
- 14 A. Matt, could you take me back to the slide that has the
- adverse events in the six-month period, the corollary of 10b?
- 16 I forgot where that is. I think there's another slide, isn't
- there, that looks just like that?
- 18 Q. I will take a look and see if I can find it for you.
- 19 A. Somewhere I thought we saw that.
- 20 Q. All right. I'm not sure if you're referring to the
- 21 information in the JAMA article itself?
- 22 A. No, I thought we were looking at this. We had a comparison
- of the six-month data and the 12 and the entire study data.
- 24 I got a lot of stuff here in front of me so I'm not exactly
- clear about it. Of course the numbers are not exactly the
- same. I mean they're very close but they're not exactly the
 - same. For example -- let's see. Entire study period. We're
 - trying to compare it to 10d? What's that slide under your
 - 4 left hand?
 - Q. It's Table 10b from the final report.
 - 6 A. B. okav.
 - 7 Q. Bates number ending 288.
 - 8 A. I mean the numbers are not identical. They're very close but
 - 9 they're not identical. For example, any event is 81.8 and
 - 81.7. Diclofenac -- I mean celecoxib. Diclofenac is 82.8
 - and 82.9, so the numbers are not identical but I don't
 - 12 know --
 - Q. Okay. Why don't you do me a favor and take a look at the
 - 14 JAMA article again.
 - 15 A. Okay.
 - 16 Q. Which is Wolfe Exhibit 3.
 - 17 A. Okav.
 - 18 Q. On Bates number ending 883.
 - 19 A. Yes, okay. I have it now.
 - 20 Q. Table 4.
 - 21 A. Well, it doesn't have it broken down. Table 4 does not have
 - it broke -- to my read does not have it broken down to
 - 23 diclofenac versus ibuprofen. It has celecoxib versus the
 - 24 NSAID group.
 - Q. Right. The percentages in Table 4 of the JAMA article,



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September 29, 2010

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	197			199
1	though, the percentages for the celecoxib group should	1	A. No.	
2	correspond	2	Q. And who made the decision?	
3	A. For the celecoxib group should correspond, so they're	3	A. This is can I explain one thing?	
4	different. Okay.	4	Q. Sure.	
5	Q. So does this lead you to conclude that you reported the	5	A. This is the kind of slide I can't make because I don't have	
6	adverse events for the entire study period at ACP?	6	the data so somebody has to make up the slide and they gave	
7	A. It doesn't because I haven't I'm seeing that it's not the	7	me the slide to present. I can't make up the slide myself.	
8	same as the six-month period. I haven't seen that it's the	8	So one would assume that Geis, Lefkowith, you know, Ken	
9	same as the entire data set unless I'm my brain is going	9	Verburg were the people who put this together and I either	
10	in a circle. Do you have the adverse events during the	10	wasn't aware or forgot that this was the data for the entire	
11	entire data set?	11	study.	
12	Q. That should be I understand it to be Figure 10b from the	12	Q. Okay. And do you know, in the JAMA article, who made the	
13	final report.	13	determination to put the adverse event information just for	
14	MR. BUSHOFSKY: To move things along, you	14	six months?	
15	might want to draw his attention to this thing at the bottom	15	A. I do not, except that was easier to understand since the	
16	of the slide in the presentation about the nine months.	16	whole paper was about six months than this one why we went to	
17	MR. MONTGOMERY: Okay. Good point.	17	the full data set for the adverse events. It is a nice talk,	
18	THE WITNESS: All right. Thank you,	18	though. I'd love to take you through the entire talk.	
19	Jeff.	19	Q. I'm sure you would.	
20	MR. BUSHOFSKY: Sure.	20	A. Actually the reason I would is that it puts me on the bones	
21	MR. MONTGOMERY: That's the best	21	of what I said earlier about the other studies that have been	
22	objection ever. All right.	22	done about celecoxib. Okay.	
23	MR. BUSHOFSKY: Some objections are meant	23	Q. So did you attend the advisory committee meeting in February	
24	to move things along.	24	of 2001?	
25	Q. (BY MR. MONTGOMERY) All right. So we're on Exhibit 202,	25	A. I did.	
	198			200
1	we're looking at page number ending 236 Bates Number.	1	Q. Did you help present the CLASS information?	
2	A. Yes.	2	A. I did.	
3	Q. So now do you believe that you're reporting adverse events	3	Q. Did you use slides at that presentation?	
4	from the entire entire study period?	4	A. I did.	
5	A. Just one moment. Yes. It's slightly different than the six	5	Q. Okay.	
6	months, so yes, and especially with Jeff's note that it says	6	MR. MONTGOMERY: I'd like to ask the	
7	exposure nine months, right.	7	court reporter to mark what will be Exhibit 203.	
8	Q. Okay. So in your slide presentation to the ACP	8	THE WITNESS: I would note that I got ill	
9	A. Right.	9	during the presentation. I had the flu and I actually had to	
10	Q you reported the ulcer results for six months, correct?	10	step off the podium and go vomit. And so I really was sick	
11	A. Correct.	11	and so I was not there for the entire presentation of the	
12	Q. But the rest of the adverse events for the entire data set,	12	I don't remember if I presented the GI part and then during	
13	correct?	13	the discussion had to excuse myself but I was ill.	
14	A. That's correct.	14	Q. (BY MR. MONTGOMERY) Okay.	
15	Q. And in the JAMA article you reported the ulcer results for	15	(Exhibit No. 203 marked	
16	six months, correct?	16	for identification.)	
17	A. Right.	17	Q. (BY MR. MONTGOMERY) Were these the slides presented by	
18	Q. But in the JAMA article you reported the adverse events for	18	Dr. Needleman, Geis, Lefkowith and yourself at the advisory	
19	only six months?	19	committee meeting?	
20	A. Right.	20	A. It looks like that, yes.	
21	Q. Why the difference?	21	Q. All right. Would you turn to Page 78 of Exhibit 203.	
22	A. I don't know.	22	A. I don't have page numbers. Oh, yes, maybe I do.	
1 22				
23	Q. Do you know who made the determination well, do you know	23	Q. In the lower left-hand corner.	
	Q. Do you know who made the determination well, do you know who made the determination to report the adverse events for the entire study period at the ACP?	23	Q. In the lower left-hand corner.A. Yeah, I do. Sorry. Okay.Q. Do you see the slide entitled CLASS Committees?	



Fred Silverstein

September 29, 2010

203

1 A. I do.

Q. And on the executive committee Dr. Lefkowith isn't listed: do

3 you see that?

4 A. I do.

5 Q. Do you know why that is?

A. I do not

Q. Was he still a member of the executive committee at this

3 point?

9 A. It's not clear to me. He may have been a member, a non

voting member. As we said earlier this morning, I read

something that said he was a non voting member. So I don't

know why his name wasn't on there. I did not make up that

13 slide.

14 Q. Okay. Let's -- will you turn to Page 97 of Exhibit --

15 A. Just let me make one comment in this regard. The role of

Searle in this study was very obvious in the sense that they

were half the authors on the paper and I think it said that

we were paid consultants to Searle and I think it said that

Searle paid for the study. So I mean there was never an

attempt to obfuscate the fact that Searle was involved in the

21 study. It was never an attempt to say that this was just all

of us doing the study without Searle. I'm sorry; what page?

23 Q. 97 of Exhibit 203.

24 A. Okay.

Q. Is that a slide entitled Ulcer Complications?

don't see that anywhere appearing on this -- on this table,

because the table is broken out by diclofenac and ibuprofen

3 unless I'm not reading this correctly.

Also complications, .4, all patients.

5 Q. Obviously it says what it says, but in the Table 2 under All

6 Patients for the number per 100 patient years, diclofenac

7 is .93, right?

8 A. Wait a minute. Where are you?

9 Q. Table 2.

10 A. Right.

11 Q. Under All Patients.

12 A. Just a minute. Okay.

 $\,$ 13 $\,$ Q. And then the bottom of the diclofenac column there.

14 A. So the number per --

15 Q. ls .93?

16 A. -- hundred patient years, so it's .73 for celecoxib which

looks about what the bar graph looks like. And it's .93

and .98 for the other two comparators. And so what you're

saying is combined it would have been about .95, so it looks

like that's what it is. It's ulcer complications for all

21 patients, okay.

22 Q. Okay. So going back to Exhibit 203, the slide on Page 97.

23 A. Right.

24 Q. Is it your belief now that that slide is showing results from

the full study period, correct?

1 A. Yes, it is.

Q. All right. And is that the results from six months or the

entire study period?

4 A. I don't know.

5 Q. All right. Let's take a look at --

6 A. Maybe there's a concomitant slide that shows the other period

7 of time.

8 Q. All right. Let's take a look at the final report and I think

9 we can figure it out.

10 A. Okay.

11 Q. So final report, Bates number ending 117.

12 A. Okay. So Ulcer Complications, All Patients.

Q. So I direct you to Table 2 for all patients, all the way to

the right is the comparison between celecoxib and the

combined NSAIDs. Do you see that?

16 A. Yes

17 Q. And that P value is .45?

18 A. Right

Q. And is that the same as shown on the slide from Exhibit --

20 A. It is but I'm not sure it's the same slide anyway. Let me

21 look for a minute

22 Q. Okay. Take your time.

23 A. The problem is I don't see anywhere on this chart where -- I

see celecoxib coming in at about .75 with the ordinate saying

25 it's about .75, but the bar to the right is about .9 and I

1 A. Yes, I think so

2 Q. Now, was there any -- are you aware of any decision by Searle

or Pfizer to present the full study data at the advisory

4 committee meeting?

A. That's a complicated question because the FDA had all the

data. Dr. Goldkind was the FDA GI reviewer. He said that he

7 wanted to see all the data. So I don't think it was an

8 internal discussion on the part of Searle, I think the FDA GI

9 person said he wanted to see all the data, I think.

10 Q. Let me put it a different way

As far as you know, at the advisory committee meeting,

did any representative of Pfizer -- I'm sorry. Strike that.

13 At the advisory committee meeting, did any

14 representative of Pharmacia or Pfizer argue for the validity

of the six-month analysis?

A. I think so. As I remember, yes. Now, but I may be mixing

that up with conversations with the FDA prior to the advisory

meeting. Because Goldkind -- there was a question of what

Goldkind was going to do and I think he was the one that came

out saying he wanted to see all the data.

21 Q. But you could have presented the full results and the

six-month results at the same meeting, correct?

23 A. And I don't know that we didn't do that. I don't know that.

Q. I'm just asking you if you could have done that?

25 A. I think so.



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September 29, 2010

Fred	l Silverstein		September 29, 2010
	205		207
1	Q. Okay.	1	Q. All right. Do you see on Page 78 where your name appears?
2	A. Because at this meeting it was clear that the data that was	2	A. Yes, I do.
3	presented was the whole trial and that the JAMA article had	3	Q. I'm going to so is that the beginning of your
4	been the first six months.	4	presentation?
5	MR. MONTGOMERY: I'd like to ask the	5	A. I don't know.
6	court reporter to mark Exhibit 204.	6	Q. Okay. Take a look.
7	(Exhibit No. 204 marked	7	A. I mean I don't know if I said anything earlier, but clearly
8	for identification.)	8	this is me talking.
9	THE WITNESS: Yes. Okay.	9	Q. Okay. And then I'd like you to look a couple pages later on
10	Q. (BY MR. MONTGOMERY) And did Dr. Goldkind make a presentation	10	Page 81.
11	at the advisory committee meeting?	11	A. Okay.
12	A. I think so.	12	Q. And according to the transcript this is still you talking,
13	Q. And do these look like his slides?	13	correct?
14	A. Beats me, but it looks like it. I don't remember the slides	14	A. Yes.
15	at all.	15	Q. Okay. And I'd like you to look at the statement starting on
16	Q. Just take a look through and let me know, is there any reason	16	Page on Line 5 of Page 81.
17	you think these aren't Dr. Goldkind's slides from the	17	A. Okay.
18	advisory meeting?	18	Q. It says, "And we allowed aspirin which I think is critical
19	MR. BUSHOFSKY: Objection.	19	because you have already seen that it has a dramatic effect
20	THE WITNESS: No.	20	and I think it is an important part of a study of this type
21	Q. (BY MR. MONTGOMERY) Did Dr. Witter make a presentation at the	21	so I think it is an excellent trial design."
22	advisory committee meeting?	22	Do you see that?
23	A. I don't remember who is Dr. Witter? I don't remember.	23	A. I do.
24	Q. Let me show you this and maybe it will refresh your memory.	24	Q. Now, didn't you testify earlier that you in your opinion
25	MR. MONTGOMERY: I'd like to ask the	25	aspirin should have been excluded from the trial?
	206		208
1	court reporter to mark Exhibit 205. She's got to mark it.	1	A. My opinion right now is that having aspirin obfuscated the
2	(Exhibit No. 205 marked	2	results of the trial. My opinion then was that I thought it
3	for identification.)	3	was it was important, and let me explain why. You're
4	THE WITNESS: You know what? It is	4	trying to look at real world patients and this was a
5	possible that I was ill when this was presented because I	5	difference in the design of different trials, where here they
6	don't remember any picture of any wizard looking there's a	6	designed this trial and they said, Let's take the three
7	picture of a wizard in here somewhere, a humorous slide I	7	severe outcomes, let's not take symptomatic ulcers. Let's
8	assume, and it's possible this was presented after I was ill.	8	include people on aspirin even though it's probably going to
9	Q. (BY MR. MONTGOMERY) Okay. So you don't remember you can't	9	obfuscate or make the trial more difficult. Let's take
10	tell me whether these are Dr. Witter's slides one way or the	10	celecoxib but two to four times the dose which we would use.
11	other?	11	So they pushed the design on all three parameters or multiple
12	A. No, I cannot.	12	parameters.
13	Q. Okay. Have you ever seen a transcript of the advisory	13	Now, at the end, had it been successful you could have
14	committee meeting?	14	said, Hey, even in people on aspirin, even in people without
15	A. I have not.	15	symptomatic ulcers, even in people taking two to four times
16	MR. MONTGOMERY: I'd like to ask the	16	the dose of celecoxib, it was still significant. But that
17	court reporter to mark what will be Exhibit 207. I'm sorry;	17	didn't happen, it was just short of significance. So you
18	206.	18	know, this is the art of controlled clinical trial design.
19	(Exhibit No. 206 marked	19	I would say at this point in my life, which I'm
20	for identification.)	20	entitled to have a different opinion than what I felt
21	Q. (BY MR. MONTGOMERY) All right. Does this appear to you to be	21	10 years ago, that it would have been a more clear study had
22	a transcript of the advisory committee meeting?	22	we not permitted aspirin. Now, again, these older people
23	A. That's how it's labeled, yeah.	23	I take aspirin, me, Fred Silverstein, I take an 80-milligram
24	Q. Okay. Would you take a look at Page 78 of Exhibit 206.	24	aspirin, my wife takes aspirin every day. So a lot of people
25	A. (Witness complies.) Okay.	25	take these small dose of aspirin and so there was a rationale
L	· · · · · · · · · · · · · · · · · · ·	-	and on an added of adplitted and of another was a rationale



September 29, 2010

211 209 for including aspirin. And if you say -- if you want to make 1 go back to what I said in here because I did address what 2 happened. I addressed why the CLASS trial didn't work and I 2 it real world, you should include aspirin. But with all the said, for example, that the risk factors were fewer. And I kerfuffle about the interpretation of the data perhaps, I 3 mentioned that earlier today, that doctors have gotten smart feel like, wow, if we hadn't included aspirin it would have about not wanting to put patients at risk, and therefore, the 5 taken that part out of it. patients coming into the CLASS trial had a different risk Q. The results of the trial didn't conform to your expectations; 6 profile. So I -- I thought it was a pretty comprehensive is that a fair statement? discussion of why the trial didn't come out the way we were A. Expectations, I don't know. Did -- I hoped -- you know, the 8 reason I spent all the time on this was not for notoriety and hoping it would come out. Okay. 9 Q. (BY MR. MONTGOMERY) Do you recognize Exhibit 207? 10 1.0 it was not for money. It was because I was 30 years into the 11 topic of gastrointestinal bleeding and all the different ways 11 A. Yes. Q. All right. And is this a fax to you from Steve Geis asking we've discussed today, and I thought this drug was a 12 12 you to review the rationale for the six-month analysis? 13 13 significant step forward. I was hoping that the results A. This was the point at which I decided that even though I had 14 would be clear and would leave no ambiguity. So in that 14 sense, yes, they were not as good as I was hoping they would not been consulting for Pharmacia any longer, I had to get 15 15 into this. So this is in that month of August where I told be, if that answers your question. 16 16 you I actually had the month off from my work and I was going Q. Even -- and you knew that at the time of the advisory 17 17 to have a month to do other things and I wound up spending 18 18 committee meeting, right? MR. WEISS: Object to the form of the 19 the entire month working on this. So Steve -- I don't know 19 20 if it was a fax, maybe it was a -- I don't know if it was a 20 auestion. 21 fax or an e-mail, but he sent this to me with what his 21 THE WITNESS: When you say "that" what do 22 thoughts were about the six-month data in preparation for my 22 23 writing a response. It was one of the things that happened Q. (BY MR. MONTGOMERY) The results of the study that you just 2.3 2.4 of 50 or 75 things as I began to think about writing a described? A. Yes, yes. 25 response to the letters to the editor of JAMA. 25 Q. And even in light of those results, you still thought it was Q. Was there any information in Exhibit 207 that you didn't have 1 1 an excellent trial design? at the time the JAMA article was published? 2 A. Well, I think those are two different questions. The result A. I have to review it for a moment. 3 4 of a trial and the trial design, I mean you don't design a Q. Take your time. trial to get the results, you know, you don't -- you design a A. (Witness complies.) trial because it's answering the question you want to answer, 6 6 You know. I don't know that I had seen every one of 7 and I felt in that sense, yes, it was a good design. It did 7 these slides in this format but I did not feel at the time, 8 not come out the way I wanted it to, but aside from the and I can't comment on it now because I don't have any basis aspirin issue -- and I would have included symptomatic ulcers for which to make a comparison, but I did not feel at the 9 9 time that they surprised me with any data, if that answers 10 as well, I felt overall that the trial design was fine. 10 11 And remember, there's a huge amount involved in the 11 your question. 12 trial design: Age of patients, number of centers, number of 12 Q. It sounds like the best we're going to do 10 years later. A. Yeah. Literally more than 10 years. Well, nine plus. 13 patients, underlying disease, concomitant medications, 14 steroids. I mean there are a thousand variables that have to Q. Did you have a call with Barbara DeAngeles at some point 14 be considered in a trial design, it's not just, yes, aspirin; 15 before --15

design of a trial like this and I thought it was reasonable
even though it didn't come out the way I wanted it to come
out.

MR. MONTGOMERY: I'd like to ask the
court reporter to mark what will be Exhibit 207.

(Exhibit No. 207 marked
for identification.)

THE WITNESS: Just before that, I want to

yes, no, symptomatic ulcers; yes, no -- you know, there

are -- there are literally hundreds of moving parts in the

submitted your letter to the editor?
 A. I did. My response to the letter of the editor.
 Q. And what precipitated that call?
 A. Dr. DeAngeles heard sometime in the late spring, early summer that there was this issue being raised about whether all the

Q. Let me finish the question. Did you have a call with Barbara

DeAngeles about the JAMA paper at some point before you

A. I did.

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data was presented in the CLASS paper, and as I remember a couple of Searle people went to JAMA to discuss it with her



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September 29, 2010

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	213		215
1	in person and what she said is, Where is Dr. Silverstein? He	1	the middle that ends I believe, "Not want"
2	was the first author of the paper, why isn't he here? So I	2	A. Erroneous or incomplete I think.
3	felt that at a minimum I needed to call her and then maybe	3	Q. Okay. Could you just read that into the record?
4	potentially to go to Philadelphia to meet with her in person.	4	A. I'm a doctor so my handwriting is unintelligible to me,
5	So either she called me or I called her and we talked for	5	myself. So I think she said, "Where is Fred?" And then she
6	about a half-hour.	6	said, "I want a new letter on Fred's letterhead mentioning
7	Q. Why weren't you at the meeting between Searle and	7	both the clinical faculty at UW and a partner of Fraser &
8	Dr. DeAngeles?	8	Company," that's a company of which I was a partner. "Two
	-	9	issues." I don't remember what 2G was. I don't remember why
9	A. I don't think I knew it was about to happen. I don't remember.	10	I used that abbreviation. But one, "Did we have the 12-month
10		11	data at the time we submitted the paper and why we didn't
11	Q. Okay.	12	submit the 12-month data?"
12	MR. MONTGOMERY: I'd like to ask the		
13	court reporter to mark what will be Exhibit 208.	13	And then she said Dr that "Fred's reputation is
14	(Exhibit No. 208 marked	14	very good." She doesn't want an article to be incomplete
15	for identification.)	15	erroneous or incomplete. So that's what you asked me to read
16	THE WITNESS: Okay. Yes.	16	through.
17	Q. (BY MR. MONTGOMERY) Is Exhibit 208 a fax regarding your call	17	Q. Yep, that's fine. Thank you.
18	with Dr. DeAngeles?	18	MR. MONTGOMERY: At this point I'd like
19	A. No. Exhibit 208 has a brief fax on the front but the	19	to ask the court reporter to mark what will be marked
20	majority of the document are the notes that I made for myself	20	Exhibit 210.
21	while I was talking to Dr. DeAngeles.	21	(Exhibit No. 210 marked
22	Q. Okay.	22	for identification.)
23	A. And that's just a some people need to make notes while	23	Q. (BY MR. MONTGOMERY) Is Exhibit 210 a letter from
24	they're doing something and I'm one of them and I wrote these	24	Dr. Lefkowith to you dated well, undated letter?
25	notes down. And I included it in the documents that I sent	25	A. Yeah, it's undated.
	214		216
1	for this because you had asked for everything and so I sent	1	216 THE WITNESS: Do you know the date of the
1 2		1 2	
	for this because you had asked for everything and so I sent		THE WITNESS: Do you know the date of the
2	for this because you had asked for everything and so I sent everything.	2	THE WITNESS: Do you know the date of the letter? Did this come from me when I sent the whole clump of
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September 29, 2010

F'rec	l Silverstein		September 29, 2	010
	217	,		219
1	first paragraph, "Given your important role as a consultant	1	hard in this environment for me to pour over each one, is	
2	to Pharmacia, we would like to take this opportunity to	2	that there was no difference between comparators for	
3	provide relevant data to you. We regret any confusion that	3	thromboembolic events, et cetera.	
4	may have arisen and hope this information will enable you to	4	Q. All right.	
5	more effectively respond to queries in your role as a	5	MR. MONTGOMERY: I'd like to ask the	
6	consultant."	6	court reporter to mark what will be Exhibit 211.	
7	And it's from Jim and I don't know when Jim died so	7	(Exhibit No. 211 marked	
8	that would be one way to know it was obviously pre mortem.	8	for identification.)	
9	Do you know when he died?	9	Q. (BY MR. MONTGOMERY) Exhibit 211, more handwritten notes by	
10	Q. I don't.	10	you?	
11	THE WITNESS: Anybody? I don't know when	11	A. Yes.	
12	he died, so	12	Q. And do you know what these notes are about?	
13	Q. (BY MR. MONTGOMERY) Let's take a look at the third page of	13	A. Yes.	
14	Exhibit 210, Bates No. Silverstein 00130. And do you see in	14	Q. What are they about?	
15	the top paragraph there it refers to the advisory committee	15	A. The whole thing we've been talking about today. But I felt,	
16	meeting, February 7, 2001?	16	and I didn't date it because it was to myself, this was not	
17	A. Yes.	17	something that I intended anybody else to read, but this	
18	Q. So do you take that to mean	18	whole episode was upsetting to me and I felt I needed to	
19	A. Yes. Sorry.	19	write down the rationale for several things that we've	
20	Q that the letter was written after that meeting?	20	discussed today and that's what this is. Again, in the	
21	A. Yes.	21	interest of complete disclosure, I sent it to you guys even	
22	Q. Okay. I'd like you to take a look at the tables that are	22	though it was not something I intended. I didn't destroy it.	
23	attached and my question to you is whether they contain any	23	I sent it to you.	
24	information that you didn't already have after the advisory	24	Q. Okay. What prompted you to write this down?	
25	committee meeting?	25	A. Nothing special, just me saying, I better you know, no	
	218			220
1	A. Okay. You know, I think that these reports were derived from	1	threat, no you know, nothing, just me saying, I think I	220
2	the NDA summary to the FDA, but I don't remember seeing I	2	better write down what my thought process was in the process	
3	think the issue was there was a question about the	3	of writing the response to the letters to the editor of JAMA.	
4	cardiovascular safety, as a matter of fact that's in this,	4	I believe that's when I wrote it.	
5	the beginning of the paper, and that they then put together	5	Q. Okay. So you think you wrote this during the process of	
6	tables about the cardiovascular safety. So to answer your	6	drafting your letter to JAMA	
7	question, the data was available; I'm not sure I saw it in	7	A. Yeah.	
8	this form until I saw this.	8	Q about the JAMA article?	
9	Q. All right. Now, having gone through it, do you have any idea	9	A. Yeah, I mean, for example, I wanted to remember that, you	
10	why Dr. Lefkowith was sending you this information?	10	know, if somebody asked me I didn't know that I'd be here	
11	A. That's the reason I would love to know what the date is,	11	today, but if somebody asked me, Why wasn't the outcome as	
12	because at the time of the FDA presentation and at the time	12	clear look at No. 7 on the first page, Why wasn't the	
13	of my response to JAMA in August there was no indication or	13	outcome as clear as anticipated? And there were several	
14	signal that there was a problem with myocardial infarction,	14	unpredicted factors: Aspirin use we talked about; fewer	
15	stroke, clotting, et cetera. And I know that somebody had	15	patients as risk factors, we talked about; more patients	
16	written an editorial, somebody from the Cleveland Clinic or	16	dropped out; and it looked like the complications virtually	
17	something had written an editorial about COX-2 inhibitors	17	stopped occurring, et cetera. So in other words, it was to	
18	saying, you know, maybe there's an increased risk and that it	18	codify and refresh my memory about my thoughts about the	
19	was worse for Vioxx than it was for Celebrex.	19	CLASS trial.	
20	I don't remember the timing of that, and I think that	20	Q. Okay. Would you look at the second page of your notes,	
21	this is to the yeah, I would suspect this was kind of like	21	Exhibit 211?	
22	at the end of 2001 or in the beginning of 2002 but I don't	22	A. Sure.	
23	know for sure. I don't know. Addressing whether we did know	23	Q. Can you read into the record, please, the note at the bottom	
1		1	,	

24

25 A. Yes.

of the page that says K something?



or not that there was any risk, and what he's concluding from

the bottom of each of these slides, because it's a little

24

25

September 29,

223

Fred Silverstein 221 Q. Do you see that? A Yes Q. Can you just read that into the record through the end of the A. Sure. "K, several consultants and others wanted to add a section regarding timing of the first six months." I don't know what that word is. Hold on a minute. It was a rapid track and some confusion led to not including this section. That was the best that I could remind myself 9 10 about why it wasn't included. I don't remember what --11 regarding timing, I don't know what I meant there. Q. All right. Do you understand that's a note to refer to the 12 13 section you talked about earlier that you wanted in --14

Q. Let me finish the question. 15

A. Okay.

Q. Do you understand this note to refer to the section you 17

talked about earlier wanting to include in the JAMA article 18

regarding the justification for only publishing six months? 19

A. Yes. 2.0

21 Q. Okay. Are you one of the consultants you're referring to in

22

A. Yes. 2.3

Q. Who are the other ones? 24

A. Don't remember. 25

1 A. Okav. I don't see cross hatching

Q. The lining --

A. Yes, okay. So it stops with -- no bias. There was no reason

for us to be unethical. Nobody owned stock, et cetera.

Q. Excuse me. You can of course explain whatever you want, but

can you just read it into the record first so we know what

your handwriting is and then you can expound if you want.

8 A. "Tried to get the section in about the six months, greater

9 than six months. It was a rapid track. There must have been

a miscommunication. In the letters to the editor we said it

11 would have been better "

And that in fact is what I said. In retrospect it 12

would have been better if we included a section explaining

14

10

13

17

15 Q. Okay. Could you read the first of the page then?

A. "Having greater than six months did not change the 16

conclusion. The decision" -- "the decision to buy 30,000

reprints had nothing to do with the consultants. There was 18

19 no reason to be" -- I don't know what that -- inflammatory. I

don't know what that means. "And even if we made a mistake

it does not mean we were unethical. It could be it was" --21

22 "it could be you can have an error and it's not intentional."

MR. MONTGOMERY: I'd like to ask the 23

court reporter to now mark what will be Exhibit 212. 2.4

25

Q. Okay. Having seen this do you think there are other 1

consultants that had that position? 2

A. These were notes for myself. Lying to myself would be

difficult. Yes, I do think so, yes. I think that Lee and

Faich, several of us wanted that section to be added.

Q. Okav. 6

7 A. But again, this is 10 years ago and -- but I wanted to write

this down for this very reason

Q. Okay. And then the "other" that you're referring to there, 9

are those Pharmacia and Pfizer employees? 10

A. I would think so. 11

Q. And do you recall who any of those were? 12

A. No, but I remember Geis said, Yes, we want to put it in,

14 because that's how he responded to me. And then I don't know

15 about Verburg and Lefkowith because I never corresponded with

them directly about it back then. 16

Q. Okay. Would you look at the last page of Exhibit 211, Bates 17

number ending 127. 18

19 A. Yes.

20 Q. Do you see at the top near the top of the page it says, "Try

21 to" -- something?

A. Yes. 22

23 Q. Could you read that section --

A. Sure

Q. -- through the cross hatching a little below it? 25

(Exhibit No. 212 marked 1

> for identification.) 2

THE WITNESS: Okay.

Q. (BY MR. MONTGOMERY) Is Exhibit 212 another set of notes by

A Yes it is 6

Q. And do you know what prompted you to write these notes?

Q. Okay. Do you see maybe a quarter of the way down the page on 9

the first page it starts, "We should"? 10

11

14

12 Q. Could you read that through the end of the page, please

A. Yes. "We should have let the reader and the editor know what

our process was. We were so focused on aspirin symptoms, et

15 cetera, et cetera, the issue of six months versus 12 months

got lost, was our fault. FS and others didn't see the need 16

to not only present the six months but also why not the 17

12 months. There was no data hidden as two to three months 18

later everything was discussed at the FDA. We were all proud 19

20 of the JAMA paper. We didn't see the six and 12-month

21 clearly or we would have shared with the reader and the

editor. Why not? Nothing was hidden. The FDA session had 22

23 both. What reason" -- I can't read that word -- "to hide it.

24 It wasn't hidden. But we didn't appreciate the importance of

sharing not just Y6 but also 12." 25



September 29, 2010

rrec	l Silverstein		September 29, 20	$) \perp 0$
	225			227
1	Q. All right. And when you said FS, do you mean yourself?	1	wanted him to put in a section about the fact that the study	
2	A. I don't remember where I said FS.	2	went longer than six months and why we limited the data to	
3	Q. Okay. It should be right after "our fault" towards the top.	3	six months, it wasn't limited to just to informative	
4	A. Let me look. Yes, me. I and others didn't see the need to	4	censoring. And my understanding was that he told	
5	not only present the six-month, but why not the 12-month. I	5	Dr. Lefkowith and then I don't know what happened.	
6	think this was I think this was around the response to the	6	Q. So do you actually know personally why it is that	
7	letters to the editor of JAMA.	7	Dr. Lefkowith didn't put in that information in the JAMA	
8	Q. Okay. Didn't you in fact see the need to explain	8	manuscript?	
9	A. I did.	9	A. No. And furthermore, I don't know that that's true. In	
10	Q that? So	10	other words, you implied that he didn't put it in the JAMA	
11	A. Yeah, I don't think	11	manuscript. Well, it's possible that he wrote it and he was	
1		12	ready to send it and, boom, in the same afternoon here	
12	Q. Let me ask the question and then you can answer it.	13	arrives your reprints of the paper. So the part about the	
13	A. Okay.	14	fast communication is literally, they were moving very fast,	
14	Q. I mean I know it's just a note, but is that statement	1		
15	regarding yourself and others accurate do you think regarding	15	and you've seen it five or six times in my notes. Like here, "JAMA fast track," it went fast. It moved very fast. So I	
16	your thoughts when you were working on the JAMA article?	16	don't know that Jim decided not to do it. He may well have	
17	A. You know, I think it was. I think that we didn't focus on	17	•	
18	the importance of that. And I think this was in preparation	18	decided to do it, but then boom, the thing arrived. It was	
19	for the response because it has on the second page, We	19	unpredictable. The author has no control over when the thing	
20	acknowledge that, "in retrospect we would have avoided	20	is going to see the light of day.	
21	confusion by explaining why we chose to prevent the six-month	21	Q. Okay. But you don't know either way how it is after you told	
22	analysis."	22	Dr. Geis that you wanted the section in that it didn't get	
23	So in other words the providence of this I believe is	23	in?	
24	when I was starting to think and making notes about how we	24	A. Correct.	
25	would describe what happened, I don't remember how much of	25	MR. MONTGOMERY: That's all I have for	
	226			228
1	this got into our actual response, but that we didn't we	1	now. Do you want to go off the record for a few minutes?	
2	didn't focus on the importance of that. The data after 12	2	MR. WEISS: Yeah, let's go off the record	
3	after six months. We didn't hide anything because we're not	3	for a few minutes.	
4	that crazy. I mean three months later every bit of	4	THE VIDEOGRAPHER: We are going off the	
5		1		
	information is going to be aired in the most public of public	5	record. The time is 4:15 p.m.	
6	presentations, but we were so focused on the 500 other moving	5	record. The time is 4:15 p.m. (Recess 4:15-4:24.)	
7	presentations, but we were so focused on the 500 other moving parts of the study that the issue of the six months versus	5 6 7	record. The time is 4:15 p.m. (Recess 4:15-4:24.) THE VIDEOGRAPHER: We are back on the	
7	presentations, but we were so focused on the 500 other moving parts of the study that the issue of the six months versus the 12 months got relatively lost. And that's what I'm	5 6 7 8	record. The time is 4:15 p.m. (Recess 4:15-4:24.) THE VIDEOGRAPHER: We are back on the record. The time is 4:24 p.m. This is the beginning of Tape	
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25 Q. Oh, thank you.



25 A. Well, I can't say it was about informative censoring. I

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September 29, 2010

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	1	A. Okay. The decision was made by the entire team to focus on		1	sitting in the side section at the FDA aside from the FDA	
	2	the first six months. The paper was written by the entire		2	panel itself.	
	3	team. Each consultant stated that each consultant		3	How could anybody say data was intentionally hidden	
	4	stated had made a statement about the conflict of interest		4	when four months later with an open forum, press,	
	5	statement. No consultant had any reason to mislead the		5	competitors, et cetera, all to be discussed.	
	6	readers about the results. The results were the same at six		6	So we didn't want to hide nobody wanted to hide the	
	7	months and the entire study, six months and the entire study.		7	data and not wanted to have actions misinterpreted since the	
	8	Several consultants and others wanted to add a section		8	data was soon to go public. It makes no sense.	
	9	regarding the timing of the first six months. The fact that		9	Q. Okay. Thank you. Do you have an understanding of when	
	10	it was a rapid track, some confusion led to not including		10	well, strike that.	
	11	this section.		11	The advisory committee took place in February, correct?	
	12	Q. Okay. And the section that you just read, which is I guess		12	A. Correct.	
	13	G, then you have H, I, and then there appears to be		13	Q. And do you have an understanding of when the SNDA in	
	14	A. A J and a K.		14	connection with that advisory committee hearing was submitted	
	15	Q. J, there we go, thank you. And I think you just read, "No		15	to the FDA?	
	16	consultant had any reason to mislead readers about the		16	A. Well, as far as I understand it, it was almost a year before.	
	17	results."		17	It was in the year 2000, in March or something of 2000. I	
	18	Do you still believe that's true?		18	don't know exactly.	
	19	A. Absolutely.		19	Q. Do you have an understanding of the relationship between the	
	20	Q. Okay. With respect to the employees of Searle and/or		20	timing of the submission of the SNDA and the submission of	
	21	Pharmacia who were co-authors of the JAMA article, do you		21	the JAMA manuscript to JAMA?	
	22	believe that they had any reason to mislead readers about the		22	A. I think the SNDA was submitted to the FDA first and then the	
	23	results?		23	manuscript went to JAMA. I think.	
	24	MR. MONTGOMERY: Objection to form.		24	Q. And do you have an understanding of the extent of the data	
	25	THE WITNESS: No, I have no reason to		25	that was contained in the SNDA that was submitted to the FDA?	
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	1	believe that. I knew them. As you heard me say, I had		1	A. Yeah, and I read it when Matt showed me the full text,	
	2	worked with Steve Geis for 14 years and held him in the		2	180,000 pages. I mean this was a humongous deposit of	
	3	highest esteem as a clinical investigator who was probably		3	information.	
	4	is probably one of the best clinical investigators I've ever		4	Q. And but in terms of the length of the data that was	
	5	met. And I was never even crossed my mind that there		5	submitted six months or 12 months, do you have an	
	6	would be any manipulation of any part of this nor did anybody		6	understanding of what the SNDA contained in that regard?	
	7	at any point tell me that something like that was necessary.		7	A. 12 months. It may have dealt with the issue about why they	
	8	Q. (BY MR. WEISS) And after all that has transpired in the		8	thought six months was more valid because six months was the	
	9	aftermath of the publication of the JAMA article, has that		9	way you would make the point that it seemed like this is	
	10	changed your opinion of Dr. Geis?		10	tracking on all the other studies that were done. You know,	
	11	A. No.		11	we flashed by several of these presentations, but in it	
	12	MR. MONTGOMERY: Objection to form.		12	you'll see the other NSAIDs causing complications, causing	
	13	THE WITNESS: No, it hasn't.		13	ulcers, et cetera. That's all the data I was talking about,	
	14	Q. (BY MR. WEISS) I think you testified earlier about the extent		14	I've been talking about all day, and the six-month data	
	15	to which you trusted Dr. Geis. Do you recall that testimony?		15	really confirmed conformed much more closely to that,	
	16	A. I do.		16	especially especially if you include symptomatic ulcers.	
	17	Q. And do you still trust him to the same extent today?		17	So I think I don't know, I never read the whole NDA,	
	18	A. I do.		18	but I assumed they declared all the data and said, Look, we	
	19	Q. I'll ask you to turn to the next page of $\underline{\text{Exhibit 211}}$ and it		19	want to focus on the first six months and I think Goldkind	
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to look at all the data.

24 A. Is this -- this?

25 Q. Yes.



is Bates No. 00126, and could you read the top of that page

and all the data would be presented in open forum. People

who wrote the paper also were involved in the FDA panel."

And in fact I think almost all the authors were there

22 A. Yes. "The feeling was we were off to the FDA in three months

through about two-thirds of the way down.

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came back and said, No, no, I don't want to do that, I want

cover e-mail with slides that were presented by you at ACP.

Q. Okay. I'd like you to take a look at Exhibit 202 which is a

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didn't happen.

Fred Silverstein

September 29, 2010

consider to be an upper GI ulcer complication? And that this

say, C'mon, you know, you talked about the hematocrit being

seven percent points down after you looked at the data. That

This was all designed prospectively with the input of

me as an experienced clinical gastroenterologist and all the

other stuff you were forced to listen to about what I've done

Because in fact there is a great group of gastroenterologists

on this study. Jay Goldstein. Naurang Agrawal is one of the

Because it was this question of, What is significant? And I

know for you folks it might be, Well, c'mon, is it GI? No,

whether something is a significant bleed or not. And you

don't want to include something that's not significant but

certain change in the hematocrit, a certain change in pulse

rate, a certain change in blood pressure to define that the

person was having a significant bleed. This is one of the

most important parts of these studies and I believe that

equally you don't want to exclude something that is

significant. And so that's why we said it's got to be a

it's not that way, trust me. It's very complicated to say

over the last 30 years, and the other gastroenterologists.

nicest people in the whole world. And we all put input.

was designed prospectively. It would be totally invalid if

we tried to design it in retrospect because then you could

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A. I don't have the e-mail here anymore. I have the slides. 1 Q. That's fine, I'm not going to ask you about the e-mail. 2 Before we dive into the document I think you testified earlier in sum and in substance that you discussed with 4 5 representatives of Searle or Pharmacia that in connection with your presentation you would explain the fact that the study went longer than six months but for certain reasons you decided to only look at six months of data 9

Is that an accurate statement of your earlier

10 testimony?

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11 A. It is, and I discussed it with Steve Geis and I don't remember -- and Steve I think discussed it with Phil 12

Needleman who really was the spiritual head and literal head

14 of this whole effort. And it was -- I said. I want to do

this, and Phil came by and he suggested that one way to

phrase it would be, The study lasted longer than six months 16

but the data after six months was very difficult to interpret 17

and therefore we decided to focus on the first six months of 18

19

Q. Was there any resistance on the part of either Dr. Geis or 2.0

21 Dr. Needleman to your presentation of those facts?

22 A. There was none.

Q. At any point in time did any representative of Searle or 23

Pharmacia discourage you or attempt to prohibit you from 24

disclosing the extent of the data or the results of the CLASS 25

Q. Was this primary end point as described in Slide 14 the same primary end point that is described in the study protocol?

every clinical trial that does it has to do that.

A. Yes, I believe so. 3

Q. I'll ask you to take a look at Slide 20.

Q. And I'll ask you to take a look at the first set of bar 6

graphs which are labeled Complications. Do you see that?

8 A. I do

Q. What does that reflect? 9

A. What it said was that -- I'm color-blind but in this 10

particular instance I don't think there are any colors here. 11

12 These are vacant bars, a pet peeve of mine. But anyway, it

13 says that when you looked at complications which I defined

earlier, that there were about .7 percent complications on 14

the celecoxib and about 1.4 percent complications on the 15

comparator NSAIDs, but that was not statistically

significantly different. 17

And here you get into a whole consideration of, What do 18 19 you mean by statistically significantly different? And it is

20 not so easy. You know, if you want to be sure, make it .01,

but .01 maybe you need 16,000 patients. If you want to make

21

22 it .1 instead of .05, maybe you can get by with 2,000

23 patients, but it means that one time in 10 you're going to 24 draw a conclusion that something's significant and it's not.

25

That's the whole nature. I shouldn't lecture about

study? 1

A. They did not.

Q. I'm going to ask you to take a look, going back to

4 Exhibit 202, at Side No. 12.

A. (Witness complies.) Okay.

Q. And I'll ask you to take a look under the heading Design, the 6 7 second bullet says, "Minimum six months exposure."

Do you see that?

A Yes 9

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Q. What would that -- well, strike that.

Would that indicate anything to somebody seeing this presentation as to the extent of the data from the CLASS

13 14

MR. MONTGOMERY: Objection to form.

THE WITNESS: In fact, it would suggest that the trial went longer than six months, and now that I'm

looking at that slide, I remember -- with the caveat of a 68-year-old brain thinking about something that happened

10 years ago -- that I may have said something like, you

20 know, that's what I said when I started that it was -- it 21 went longer than six months but we're focused on the six

22

23 Q. (BY MR. WEISS) I'll ask you to take a look at Slide 14 and if

you could tell me what it is this Slide 14 describes. A. So this is talking about the primary end point, What do we 25

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Fred	Silverstein			September 29, 20	01
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1	statistics as I told you several times today, but it's not		1	of it.	
2	that easy. And it could be one or two more patients and it		2	Q. I'm going to ask you to go back to Slide 31.	
3	wouldn't have been .09. I never did that calculation because		3	A. (Witness complies.)	
4	nobody wants to hear that. It's the kind of thing people		4	Q. And at the bottom of the slide above the line, the P value of	
5	don't like to listen to. Yeah, right. But if it were one or		5	0.05, it says, "versus celecoxib/median exposure nine	
6	two more patients it might have been .04. That's the problem		6	months."	
7	with an event that's so rare.		7	Do you see that?	
8	Q. Okay. Could you turn to Slide 33?		8	A. I do.	
9	A. (Witness complies.)		9	Q. Would that indicate anything to somebody seeing or listening	
10	Q. And I'll ask you to take a look at the middle column which is		10	to this presentation about the extent of the data from the	
11	diclofenac and the last line of the the last row reads		11	CLASS study?	
12	withdrawals and there is a number there, 16.6 with a star		12	MR. MONTGOMERY: Object to form.	
13	next to it. Do you see that?		13	THE WITNESS: I think it would. I mean I	
14	A. I do.		14	think it suggests that this wasn't a six-month study, it went	
15	Q. What does that reflect?		15	longer, which is consistent with what I clearly said at the	
16	A. That means that there were significantly at a .05 P value		16	beginning of the presentation. And there was no attempt to	
17	significantly more withdrawals for the diclofenac group than		17	hide anything. I mean there it was.	
18	from the celecoxib group.		18	Q. (BY MR. WEISS) And then when you were discussing these slides	
19	Q. Is that fact related to the informative censoring theory?		19	with Mr. Montgomery earlier there was some discussion about	
20	A. I think it is.		20	who prepared these slides or this slide in particular. Do	
21	Q. And in presenting this slide was there any discussion about		21	you recall that?	
22	this withdrawal rate influencing or impacting the study		22	A. Yes. It was prepared by by the company, because I didn't	
23	results?		23	have the data to do it; however, the talk and already it's	
24	A. I don't remember. That's a fair question. In other words,		24	probably enough to make you sick to your stomach the talk	
25	when I this is what we're looking at, this is my		25	you can see is my talk because this is the stuff that I	
		238			240
1	presentation that I made to the ACP, right?		1	felt you know, my slides are I'm a very, very, very	
2	Q. Yes.		2	experienced lecturer and my slides look like that. I mean	
3	A. So the question is when I said that you know, I don't		3	they look like that. They don't have they're not covered	
4	remember. It would have been a logical place to say, Hey,		4	with data the way some people are where you have to sit back	
5	this is part of what confused it, but I don't remember if I		5	and go, Oh, crap, is this person going to read them? Are	
6	said it or not.		6	they going to look at them? Am I going to read them? Mine	
7	Q. And the star I'm sorry if you said this already, but the		7	are straightforward. This is the presentation that I worked	
8	star next to the 16.6 indicates what?		8	on for years with how to look at this. So here's the data	
9	A. That the P value is less than or equal to .05 versus		9	about also complications with NSAIDs, and then the COX-2,	
10	celecoxib.		10	some of the data that it's better than Naproxen, et cetera.	
11	Q. So that the difference in the withdrawals between the two		11	Q. But prior to presenting these slides you reviewed them?	
12	groups		12	A. I believe I did.	
13	A. Were clinical were statistically significant.		13	Q. And you approved	
14	Q. Now		14	A. Yes.	
15	A. You know, just if I may, one comment?		15	Q using them?	
16	Q. Sure.		16	A. I did.	
17	A. Joan actually clarified my thinking about some of this. What		17	Q. I think we can put 202 away.	
18	we went through was, What happened? You know, what happened?		18	I'd like you to take a look at Exhibit 199 which is the	
19	And it was that's what happened. You know, we were looking		19	e-mail containing the pink sheet article.	
20	at the data and saying, you know, it went along just the way		20	A. Okay. Okay.	
21	we would have sort of predicted it would go and then it got		21	Q. And Mr. Montgomery pointed you to a paragraph at the bottom	
22	funny and that's when the fact that so many more people had		22	of the page which begins, "Data from the first six months of	
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withdrawn from the diclofenac group, it was like that looks

like something is changing in that group. And that was the

genesis of the consideration of informative censoring or part

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the trial were used for the head-to-head comparison of

And I think your testimony was you weren't sure whether

NSAIDs," et cetera, et cetera.

Fred Silverstein

September 29, 2010

243

244

or not that was something that you specifically -- well, strike that.

I think you said that you don't recall whether what is reflected here was something you actually said; is that fair?

5 A. That is correct.

Q. Okay. Now, notwithstanding whether or not you used these

actual words that are here in this article, is what is

reflected here about the use of the first six months of data

9 from the trial for analysis consistent with your recollection

of the presentation that you gave?

11 A. So, I'm sorry. You're saying that this came after I

presented to the ACP?

Q. Well, let's just take a step back. Do you see up at the top

that this is dated April 24, 2000?

15 A. Right, right.

Q. Okay. And do you recall that the presentation that was at

17 ACP took place on or about April 15th or --

18 A. Okay

19 Q. Okay. So does that suggest to you that this came out -- that

this article was published after your presentation?

21 A. Yes.

1

22 Q. And does it suggest to you that this article was informed by

23 your presentation?

24 A. This article was informed -- yes, I would think so.

25 Q. Okay. Now, again looking at this paragraph which reads,

"Data from the first six months of the trial were used for

A. It's as if I felt like there was three reasons and here's one

of them and then the person didn't put the other two down, if

3 I said that.

Q. Okay. Now, I'd like you to take a look at the JAMA article

which has previously been marked as Wolfe Exhibit 3.

A. I don't know where that is. I've got the editorial. I got

it. Okay. Here we are.

8 Q. And so, Dr. Silverstein, in your view is there anything in

9 the JAMA article which discloses the fact that there is more

than 13 months of data from the CLASS study -- I'm sorry.

11 Strike that.

In your review is there anything in the JAMA article

which reflects the fact that there's more than six months of

14 data from the CLASS study?

15 A. Yeah. I mean in the study protocol it says, "Patients were

provided an opportunity to complete a minimum of six months

of treatment but could go longer than that."

18 Q. Okay

13

19 A. And I think it says four, 13 and 26 weeks, which would be six

20 months, right? Half a year. And then every 13 weeks

thereafter, also addressing the fact that the study went

22 longer than six months.

23 Q. Okay. Are you referring to --

24 A. I'm sorry.

25 Q. -- Bates No. 78879 under the heading in the column of the

1

middle of the page labeled Study Protocol?A. Yes.

Q. And that reads, "After baseline visit, follow up clinic
 visits took place at Weeks 4, 13 and 26 after the initial

dose of medication and every 13 weeks thereafter"?

6 That's what you were referring to?

7 A. That's correct. And then it says patients were provided an

8 opportunity to complete a minimum of six weeks of

9 treatment -- six months.

10 Q. Now, based on various of the things that we've just looked

at, is it your belief or understanding that at the time that

the JAMA article was submitted for publication, the fact that

there was more than six months of data from the CLASS trial

14 had been publicly disclosed?

15 MR. MONTGOMERY: Object to form.

THE WITNESS: Well, it certainly had

been -- it certainly had been submitted to the FDA so the FDA

18 knew about that. I don't -- can you tell me when the article

was submitted, when the manuscript was submitted?

20 Q. (BY MR. WEISS) I'll represent to you it was submitted in mid

21 June of 2000.

22 A. So it was a month or two after my ACP presentation where I

23 said it?

16

24 Q. That's my understanding.

25 A. And so I guess -- I guess it was what I said at the American

the head-to-head comparison of NSAIDs," my question is: Even 2 assuming that you didn't use those exact words in your 3 presentation, is what is reflected here consistent with your recollection of what you said in substance about the use of six months of data? 6 MR. MONTGOMERY: Object to form. 7 8 THE WITNESS: It is possible that I said 9 that but not -- but not only that. That's the part, you know -- I might have said everybody had to be on this -- the 10 drugs for six months, therefore six months was a reasonable 11 12 place to do an analysis. But I -- you know, this is a 13 summary of what I said, it's not a quote. And I would assume 14 I said there were other factors that led us to believe that 15 the six-month was better data than the data after six months. including informed. 16 Q. (BY MR. WEISS) Let's just focus on the first part of the 17 sentence which states that, "Data from the first six months 18 of the trial were used for the head-to-head comparison of 19 20 NSAIDs " 21 A. Okay Q. Is that consistent with your recollection of what you said in 22 23 substance in your presentation? 24 A. Yes, it's just not -- I'm sorry; it's just not complete. 25 Q. Okav. No. that's fair.

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Free	a Silverstein		September 29, 20	0 ± 0
	24	5		247
1	College of Physicians that the study went longer, so to that	1	A. I do.	
2	audience I said that the study went longer than six months.	2	Q. Okay. And notwithstanding that testimony, did you fully	
3	The FDA knew it went longer than six months. I don't know	3	understand the basis for the decision to publish only six	
4	other potential venues where that would have come up.	4	months of data way back in June of 2000?	
5	Q. Well, was there to your knowledge was there news coverage	5	A. Yes, I think so.	
6	of the presentation at the American College of Physicians?	6	Q. Do you have do you understand that in this lawsuit the	
7	MR. MONTGOMERY: Object to form.	7	plaintiffs are alleging that the defendants defrauded the	
8	THE WITNESS: I gathered that that's what	8	investing public?	
9	we were looking at with the pink slips or the pink sheet or	9	A. That's what I understand.	
10	whatever it is, slips.	10	Q. And do you understand that they claim that part of that fraud	
11	Q. (BY MR. WEISS) Did the fact that the did the fact that	11	was the JAMA article of which you were the primary author?	
12	there was more than six months of data well, strike that.	12	A. I do.	
13	Did the fact that that more than six months of data was	13	Q. Do you have any reaction to those allegations?	
14	available from the CLASS well, strike that. That's a	14	A. Well, maybe two parts. One is would I have done that and the	
15	difficult question to ask. It's much easier to lead them	15	answer is absolutely no, not, never would I have done that.	
16	but	16	There was no reason for me to do it. It made no sense at all	
17	Did the fact that it was publicly disclosed that more	17	why I would be involved in defrauding anybody. I have never	
18	than six months of data was available from the CLASS study	18	owned a stock a share rather of Pfizer, Pharmacia or	
19	well, strike that. I'm going to have to formulate that	19	Searle. I don't know even know if they still exist or are	
20	better. I'll move on and come back to it.	20	they all part of Pfizer? Literally. If I have a mutual	
21	Earlier there was some discussion and some testimony	21	fund, which I have two, which has 2700 companies, perhaps one	
22	about your view that you would have preferred that the JAMA	22	is Pfizer. I never looked at that.	
23	article included a section discussing the six-month issue; is	23	I never looked at the Pfizer share price. I don't know	
24	that accurate?	24	what happened to the Pfizer share price. You know, with this	
25	A. Yes, it is.	25	kerfuffle, you know, that is the basis of the lawsuit. So	
,	O. New when the esticle same out and was published and you saw		from a proceed standarist Livet had absolutely as assess to	248
1	Q. Now, when the article came out and was published and you saw	1	from a personal standpoint I just had absolutely no reason to	
2	it for the first time, as you testified, that that section	2	do that. It just and that's what I told Cathy DeAngeles	
	didn't make it into the final version of the article, you	3	and she said, Yeah, why would you do that? And second of	
4	didn't make any attempt to retract the article or correct the	4	all, the second part was asking me if anybody from the	
5	article at that point in time? A. I did not.	5	company and what were you asking about that?	
6		6	Q. Well, I guess the same question with respect to the company	
7	Q. Okay. Was that due in part to your understanding that the	7	authors, which is you said you had two reactions?	
8	existence of more than six months of data had been publicly	8	A. Yes. That was to that. But first I wanted to deal with	
9	disclosed prior to the submission of the JAMA article to	9	whether I would do it. The second reaction is whether they	
10	JAMA?	10	would do it and I had absolutely no indication that they would do that. Not from Needleman, who is respected as a	
11	MR. MONTGOMERY: Object to form.	11	, , , , , , , , , , , , , , , , , , ,	
12	THE WITNESS: To JAMA?	12	first class scientist, you know, I won't even well, maybe	
13	Q. (BY MR. WEISS) Yes.	13	I will. I mean the talk was he's going to win a Nobel prize	
14	A. Yes. At least it appeared from what I was told that the	14	for this COX-2 stuff. I mean that's what the talk was, not	
15	JAMA one of the JAMA editors knew that there was more data	1.5	that something was going on that would be embarrassing.	
16	and didn't say, Wait a second, hold it, let's hold	16	Geis is a first rate clinical investigator. Verburg is	
17	publication until we clarify this issue. So it was one of	1,7	a smart, good investigator. Jim Lefkowith was a great	
18	the factors that the FDA having said publicly at the ACP that	18	investigator. Aimee Burr, I mean that whole group, and I	
19	the study went for longer than six months, the fact that I	19	never once saw any indication that anybody was attempting to	
20	still thought that the six-month data was the better data	20	manipulate stock prices or anything like that. I I had no	
21	were the factors I guess that went through my mind.	21	experience seeing that at all, ever.	
22	Q. Now, I think you testified earlier that you don't have a	22	Q. Have you read the editorial that was published in the British	
23	complete understanding of the term "informative censoring" or	23	Medical Journal in June of 2002 by Peter Juni, Paul Dieppe	



that you're not all that comfortable with it. Do you recall

24

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that?

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and Anne Rutjes?

25 A. Uh-huh. (Witness nods head up and down.)

24

September 29, 2010

251

249 Q. And do you have an understanding of the criticisms that they 1 or six times today but I mean what I'm saying. The amount of 1 2. data and the amount of work that goes into these trials, just offered of the JAMA article? the patient effort, just the patients who say, Yes, I'll be 3 A. Uh-huh. (Witness nods head up and down.) willing to go into a placebo control trial, or, I'm willing Q. What do you understand those criticisms to be, generally? 4 to take this new medication and have a comparison to these 5 A. Well, I got so annoyed when I read it that I don't exactly other medications; the amount of work that the patients do is 6 remember specifically what happened. What I felt was here were two fellows in rheumatology, which means they are two or three years out of medical school, two of them, and this 8 And no. I don't think that the whole study was negated 9 other person that I didn't know at all, going off on dredging 9 and I think in fact that the study is positive. I think -- I 10 think it's positive and fits into the -- and perhaps I'm 1.0 data, ethical misconduct. I mean I didn't think there was a quilty of seeing what I think it should be and then seeing 11 basis for any of this. And I don't know anything about Juni, 11 that it is that. But I think the data -- you know, you look but I was looking after GI bleeders when these two fellows 12 12 13 at these things like this (indicating) and you can say 13 weren't born. Literally. I was taking care of GI bleeders 14 it's .09. Well, maybe if it was this it would be .03. I 14 and using lasers and using heater probes in 1972 and I'll bet 15 mean it's -- sometimes just one or two cases will change they were just in the birthing process or were a few years 15 that. And again, when you're dealing with a problem so old. And it really bothered me. It didn't bother me back 16 16 17 big -- this is why I started out today talking about how you 17 then because I was sort of in the, you know, Here it goes, 18 could find surrogate markers. It sounded like esoteric 18 here's another group. But when I read it recently it was 19 nonsense from an academic airhead perhaps, but it's not. It 19 like. I can't believe that they said that. I mean there were 20 is the essence of how you design these trials. 2.0 no grounds on which to make those accusations. It is extremely difficult -- 8.000 patients. I mean 21 21 And a metaanalysis? I mean I have done this research 22 imagine how much effort and cost goes into that. And do you 22 with my hands. I am an animal lover and I have sacrificed a 23 know who's going to pay for it? Nobody's going to pay for it lot of animals to try to get real data about what happens to 23 bleeding and how you can stop bleeding. So I'm talking about 2.4 but the pharmaceutical industry, because under any government 24 really being involved in this. I looked at every one of 25 they're not going to come up with enough money to pay for 25 1 these complications in the mucosa trial. Every single 1 patient I reviewed, every one to be sure that they 2 2 adjudicated to be clear. I was very much involved in the 3 3 adjudication here, and for somebody to sit back and say, This is terrible, you know, these people didn't do a good job at

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all and what we need is a good metaanalysis which means a 6 7 gamish of stuff thrown into a pot, you know, none of which is comparable to anything else. So I didn't respond really positively to that 9 10

Q. Okay. And earlier when you were talking with Mr. Montgomery about the intentional inclusion of another section in the JAMA article and you said that you thought that you could have avoided some confusion by including that section, do you think that the failure to include that section renders the

15 JAMA article fraudulently misleading?

16

11 12

13

14

MR. MONTGOMERY: Object to form. 17 THE WITNESS: You know, I don't think so. 18 As a matter of fact, I think had that section been in there 19 20 so people would understand how we did it, the article stands 21 on its own. I mean it's a huge amount of data, of interesting data about what happened to these people. And 22 23 the thought that it was all undone by the exclusion of that 24 paragraph, you know, is enough to make me nauseated. This 25 was a huge -- I mean I -- you know. I know I've said it five

these trials. And furthermore, how do you find out, Well, maybe we shouldn't have used that same dose of celecoxib, let's go at a half dose? How are you going to do that? Are you going to go do another 8,000 patient trial? I mean that's the whole reason for doing the surrogate trials where you say, Hey, no ulcer, no complicated ulcer.

Now, I mean the FDA -- I told you -- I think the FDA is a great organization and I don't criticize them. I think they have the same problems everybody has, you know, trying to figure out what the best thing to do is. And they toed the line on saying, No, if you want to say there's less bleeding, you prove there's less bleeding. But the problem -- if I were a statistician I could more eloquently explain that when you're dealing with these huge number of patients and the incidence of the event is so small, just a few one way or the other changes -- changes this magical .05 -- which I don't think is magical anyway.

You talk to most statisticians and they'll tell you if the difference is significant you don't need P values. Just look at it and you'll say, Yeah, I buy that. It went from .7 to 1.5, that's good for me. And a thing with an incidence of one percent, you go from 1.5 to .75, I'll accept that. The more formal people will say, Well, you got to give this .05 mathematical consideration of that. Fine. But I know some wonderful statisticians who say if it's really significant



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Fred	Silverstein		September 29, 2010
	25	3	255
1	you don't need statistics, you don't need P values. You look	1	know, these are signs and symptoms that are much more
2	at it and it tells you what's happening.	2	worrisome.
3	I'm not proposing that that's the way this study should	3	Q. (BY MR. WEISS) Do you have a recollection that in his review
4	have been done. I'm just telling you that it's not simple.	4	Dr. Goldkind suggested that the class data didn't demonstrate
5	And the multiple look issue hasn't come up, you know, where	5	a correlation between symptomatic ulcers and ulcer
6	you take multiple looks. You've got to get more stringent in	6	complications because in the cases of ulcer complications
7	your P value because every time you take a look there's a one	7	where the patients were symptomatic, those symptoms occurred
8	in 20 chance that it's going to look significant and it's	8	too close in time to discovery of the ulcer complication such
9	not. So the next time you look every time you look you're	9	that his conclusion was the symptoms were actually the result
10	increasing the likelihood of a false interpretation. You've	10	of the complication, they didn't precede the complication?
11	got to make the P value more stringent.	11	A. Yeah, I don't remember that
12	Q. (BY MR. WEISS) Do you have an understanding in the context of	12	MR. MONTGOMERY: Object to form.
13	ulcer complications what are sentinel symptoms?	13	THE WITNESS: I don't remember that
14	A. I have to go back. There are sentinel findings on endoscopy	14	discussion.
15	which I don't remember how the word "sentinel" was used.	15	MR. WEISS: Okay. I have no further
16	I remember I've heard it, it's just like CSUGIEs is one of	16	THE WITNESS: Not a bad thought but I
17	the words that I've never used. CSUGIEs I don't think helps	17	don't remember that conversation.
18	anybody understand what's going on. And I don't think	18	MR. WEISS: I have no further questions.
19	sentinel symptoms make a lot of sense to me.	19	Thank you very much, Dr. Silverstein.
20	There are findings at endoscopy, you can look at an	20	MR. MONTGOMERY: Okay. I just have
21	ulcer and say, This is a problem ulcer. If the ulcer has a	21	probably some, three more.
22	protruding vessel, if it has a clot attached or if it's	22	
23	actively bleeding, the odds of that ulcer being a problem	23	FURTHER EXAMINATION
24	clinically for the patient are much higher than just a single	24	BY MR. MONTGOMERY:
25	ulcer sitting there. But I don't remember you can refresh	25	Q. Can you turn to your notes again, Exhibit 211.
	25.	4	256
1	my memory, I don't remember how people used sentinel	1	A. Okay. (Witness complies.) Yes.
2	symptoms.	2	Q. On the second page of Exhibit 211
3	Q. Sure. Well, in the context of the debate about whether a	3	A. Right.
4	symptom GI adverse GI symptoms correlate to ulcer	4	Q which is Silverstein 00125 Bates No.
5	complications, is there some debate around the time period by	5	A. Yes.
6	which symptoms precede an ulcer complication in order to be	6	Q. Do you see Item K at the bottom there?
7	supportive of that correlation?	7	A. Yes.
8	MR. MONTGOMERY: Object to form.	8	Q. And it talks about consultants in that note, do you recall
9	THE WITNESS: Well, the study that I did	9	that?
10	looked at 30 days before or 24 hours before. 24 hours before	10	A. Yes.
11	when somebody's presenting vomiting blood you can find out	11	Q. And do you understand the consultants there to be your
12	what color their socks are. I mean stuff is going on so fast	12	co-authors on the JAMA paper who were not employees of
13	and so furiously, you're trying to save the patient's life.	13	Pharmacia?
14	Looking back 30 days when the person is stable, if you can	14	A. Correct.
15	stabilize them, they can answer that question. I think you	15	Q. Okay. Would you look at Exhibit 67 again. That's the press
16	might say, Are there some symptoms that are worse than	16	release dated April 17th, 2000.
17	others? Oh, clearly there are. I mean it depends on a	17	A. Press release. This one?
18	symptom. Is it a symptom if you vomit blood? Is it a	18	Q. Yes.
19	symptom if you have black tarry stools? Is it a symptom if	19	A. Okay.
20	you have penetrating pain here and it goes through to your	20	Q. When we were when I had you read through that press
21	back?	21	release earlier did you make some handwritten notes on the
22	And then there's nausea. Nausea is much less specific.	22	A. I did.
23	Nausea can occur for a variety of reasons. But somebody	23	Q. Are there any handwritten notes on there other than the ones
1 2		23	a. 7.55 a.576 any nanaminani notos on alore oalor alam ale olics

you made?

 $\,$ 25 $\,$ $\,$ A. No, I just went through and circled a couple of things and



vomits blood or somebody has what we call a coffee ground

emesis where somebody has black stools or red stools, you

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September 29, 2010

		_		
	2	257		25
1	there are no handwritten notes.	1	THE VIDEOGRAPHER: Going off the record.	
2	Q. Can I take a look at what you wrote down?	2	The time is 5:09 p.m. This is the end of Tape No. 6.	
3	A. Let me look first.	3	(Signature reserved.)	
4	Q. Sure.	4	(Deposition concluded at 5:09 p.m.)	
5	A. (Witness reviewing document.) Yes.	5		
6	Q. Okay.	6		
7	MR. MONTGOMERY: Josh, do you want to	7		
8	look at it?	8		
9	MR. WEISS: No.	9		
10	Q. (BY MR. MONTGOMERY) Okay. Do you recall your discussion with	10		
11	Mr. Weiss about the BMJ editorial?	11		
12	A. Uh-huh.	12		
13	Q. You have to respond.	13		
14	A. Yes.	14		
15	Q. And I take it that you from your discussion that you were	15		
16	not entirely pleased with the content of that editorial?	16		
17	A. That's correct.	17		
18	Q. And did you read it at the time that it came out?	18		
19	A. I don't remember.	19		
20	Q. Okay. Did you write any public response to that editorial?	20		
21	A. I did not.	21		
22	Q. And why not?	22		
23	A. Well, two possibilities: One is three that I didn't	23		
24	read it and there was so much flying around that I just, you	24		
25	know, it was just another set of comments. I did read some	25		
		58	OTATE OF WASHINGTON	2
1		1	STATE OF WASHINGTON)	
	of the lay press and I read some of the other medical) SS	
2	of the lay press and I read some of the other medical comments. I don't remember that this one specifically.	2 3) ss County of Snohomish)	
		3) ss County of Snohomish) I, the undersigned Washington Certified Court Reporter, pursuant to RCW 5.28.010 authorized to	
2	comments. I don't remember that this one specifically.	3 4)ss County of Snohomish) I, the undersigned Washington Certified Court	
2	comments. I don't remember that — this one specifically. And why not? There's a certain degree of when you're playing	3) ss County of Snohomish) I, the undersigned Washington Certified Court Reporter, pursuant to RCW 5.28.010 authorized to Administer oaths and affirmations in and for the State of Washington, do hereby certify:	
2 3 4	comments. I don't remember that – this one specifically. And why not? There's a certain degree of when you're playing in the mud, you know, you're going to get covered with mud	3 4) ss County of Snohomish) I, the undersigned Washington Certified Court Reporter, pursuant to RCW 5.28.010 authorized to Administer oaths and affirmations in and for the State of Washington, do hereby certify: That the annexed and foregoing deposition of FRED SILVERSTEIN, M.D. was taken before me and completed on	
2 3 4 5	comments. I don't remember that — this one specifically. And why not? There's a certain degree of when you're playing in the mud, you know, you're going to get covered with mud too. I don't operate by insulting somebody. I did here	3 4 5 6) ss County of Snohomish) I, the undersigned Washington Certified Court Reporter, pursuant to RCW 5.28.010 authorized to Administer oaths and affirmations in and for the State of Washington, do hereby certify: That the annexed and foregoing deposition of FRED SILVERSTEIN, M.D. was taken before me and completed on September 29, 2010, and thereafter was transcribed under my direction;	
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2 3 4 5 6 7 8	comments. I don't remember that — this one specifically. And why not? There's a certain degree of when you're playing in the mud, you know, you're going to get covered with mud too. I don't operate by insulting somebody. I did here but — and I apologize, but I don't operate in that kind of — you know, I might fantasize about giving him a call and saying, Hey, you know, what was the basis of this? And, Was	3 4 5 6 7 8) ss County of Snohomish) I, the undersigned Washington Certified Court Reporter, pursuant to RCW 5.28.010 authorized to Administer oaths and affirmations in and for the State of Washington, do hereby certify: That the annexed and foregoing deposition of FRED SILVERSTEIN, M.D. was taken before me and completed on September 29, 2010, and thereafter was transcribed under my direction; I further certify that according to CR 30 (e) the witness was given the opportunity to examine, read and sign the deposition after the same was transcribed, unless indicated in the record that the review was waived;	
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Toll Free: 800.300.1214 Facsimile: 619.239.4117

Fred	Silverstein	September 29, 2	010
		261	263
1	DEPOSITION ERRATA SHEET	1 DEPOSITION ERRATA SHEET	
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3	Our Assignment No. Seattle 16128/San Diego 335512	3 Page NoLine NoChange to:	
4	Case Caption: ALASKA ELECTRICAL PENSION FUND vs. PHARMAC	CIA 4	
5		5 Reason for change:	
6	DECLARATION UNDER PENALTY OF PERJURY	6 Page NoLine NoChange to:	
7		7	
8	I declare under penalty of perjury	8 Reason for change:	
9	that I have read the entire transcript of	9 Page NoLine NoChange to:	
10	my Deposition taken in the captioned matter	10	
11	or the same has been read to me, and	11 Reason for change:	
12	the same is true and accurate, save and	12 Page NoLine NoChange to:	
13	except for changes and/or corrections, if	13	
14	any, as indicated by me on the DEPOSITION	14 Reason for change:	
15 16	ERRATA SHEET hereof, with the understanding that I offer these changes as if still under oath.	16	
17	that i offer these changes as it still under oath.	17 Reason for change:	
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22	FRED SILVERSTEIN, M.D.	22	
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FRED SILVERSTEIN, M.D.

SIGNATURE:_

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